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**Digital cellular telecommunications system (Phase 2);
Mobile Station (MS) conformance specification;
Part 3: Layer 3 (L3) Abstract Test Suite (ATS)
(GSM 11.10-3)**

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Foreword

This draft European Telecommunication Standard (ETS) has been produced by the Special Mobile Group (SMG) Technical Committee of the European Telecommunications Standards Institute (ETSI) and is now submitted for the One-step Approval Procedure (OAP) of the ETSI standards approval process.

This ETS describes the technical characteristics and methods of test for Mobile Stations (MSs), operating in the 900 MHz and 1 800 MHz frequency band (GSM 900 and DCS 1 800) within the digital cellular telecommunications system.

This ETS corresponds to GSM technical specification GSM 11.10-3 version 4.18.0.

This part of the ETS (Part 3), contains Tree and Tabular Combined Notation (TTCN) for Layer 3 conformity specifications for which mobile stations, within the digital cellular telecommunications system (Phase 2), are tested for compliance.

The graphical form ATS

The TTCN.GR representation of this ATS is contained in annex A of this ETS.

The machine processable ATS

The electronic forms of the machine processable files (TTCN MP format) corresponding to the ATS for Layer 3 are contained in the file L3-4180.mp¹⁾ (Layer 3) on the diskette included as a part of this ETS (Part 3).

ETS 300 607 consists of three parts, which have the following ETS numbers and titles:

ETS 300 607-1	Digital cellular telecommunications system (Phase 2); Mobile Station (MS) conformance specification; Part 1: Conformance specification; Reference: GSM 11.10-1.
ETS 300 607-2	Digital cellular telecommunications system (Phase 2); Mobile Station (MS) conformance specification; Part 2: Protocol Implementation Conformance Statement (ICS) proforma specification Reference: GSM 11.10-2.
ETS 300 607-3	Digital cellular telecommunications system (Phase 1); Mobile Station (MS) conformance specification; Part 3: Layer 3 (L3) Abstract Test Suite (ATS) Reference: GSM 11.10-3.

Reference is made within this draft ETS to GSM-TSs (note).

NOTE: TC-SMG has produced documents which give the technical specifications for the implementation of the European digital cellular telecommunications system. Historically, these documents have been identified as GSM Technical Specifications (GSM-TSs). These TSs may have subsequently become I-ETSS (Phase 1), or ETSS (Phase 2), whilst others may become ETSI Technical Reports (ETRs). GSM-TSs are, for editorial reasons, still referred to in current GSM ETSS.

1) This file is located in an archive file named 6073_EO.LZH. Other file formats are available on request.

Proposed transposition dates	
Date of latest announcement of this ETS (doa):	3 months after ETSI publication
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	6 months after doa
Date of withdrawal of any conflicting National Standard (dow):	6 months after doa

1 Scope

This European Telecommunications Standard specifies the Abstract Test Suite (ATS) and partial IXIT proforma for the Network Layer (Layer 3) at the mobile radio interface of the GSM or DCS (Phase 2) mobile stations (MS) conforming to the ETSS for the Radio Resource management, the Mobility Management, the circuit-switched Call Control, the Supplementary Services and Short Message Services for the digital cellular telecommunications systems (Phase 2).

The ISO standards for the methodology of conformance testing are used as the basis for the test specifications.

2 Normative references

This ETS incorporates by dated and undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references, the latest edition of the publication referred to applies.

- [1] ISO/IEC 9646-1: "Information Technology-OSI- Conformance Testing Methodology and Framework, Part 1: General Concepts".
- [2] ISO/IEC 9646-2: "Information Technology-OSI- Conformance Testing Methodology and Framework, Part 2: Abstract Test Suite Specification".
- [3] ISO/IEC 9646-3: "Information Technology-OSI- Conformance Testing Methodology and Framework, Part 3: The Tree and Tabular Combined Notation".
- [4] ISO/IEC 9646-5: "Information Technology-OSI- Conformance Testing Methodology and Framework, Part 5: Requirements on test laboratories and clients for the conformance assessment process".
- [5] ISO/IEC 8824: "Information Technology-OSI- Specification of Abstract Syntax Notation One (ASN.1)".
- [6] ISO/IEC 8825: "Information Technology-OSI- Specification of Basic Encoding Rules for Abstract Syntax Notation One (ASN.1)".
- [7] ITU-T Recommendation Q.773: "Specifications of Signalling System No.7; Transaction capabilities formats and encoding".
- [8] ETS 300 287: "Integrated Services Digital Network (ISDN); CCITT Signalling System No.7, Transaction Capabilities Application Part (TCAP) version 2".
- [9] ETS 300 406 (January 1995): "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications: Standardization methodology".
- [10] ETS 300 501 (GSM 02.02): "Digital cellular telecommunications system (Phase 2); Bearer Services (BS) supported by a GSM Public Land Mobile Network (PLMN)".
- [11] ETS 300 502 (GSM 02.03): "Digital cellular telecommunications system (Phase 2); Teleservices supported by a GSM Public Land Mobile Network (PLMN)".
- [12] ETS 300 504 (GSM 02.06): "Digital cellular telecommunications system (Phase 2); Types of Mobile Stations (MS)".
- [13] ETS 300 505 (GSM 02.07): "Digital cellular telecommunications system (Phase 2); Mobile Station (MS) features".

- [14] ETS 300 511 (GSM 02.30): "Digital cellular telecommunications system (Phase 2); Man-Machine Interface (MMI) of the Mobile Station (MS)".
- [15] ETS 300 523 (GSM 03.03): "Digital cellular telecommunications system (Phase 2); Numbering, addressing and identification".
- [16] ETS 300 527 (GSM 03.09): "Digital cellular telecommunications system (Phase 2); Handover procedures".
- [17] ETS 300 528 (GSM 03.10): "Digital cellular telecommunications system (Phase 2); GSM Public Land Mobile Network (PLMN) connection types".
- [18] ETS 300 529 (GSM 03.11): "Digital cellular telecommunications system (Phase 2); Technical realization of supplementary services".
- [19] ETS 300 530 (GSM 03.12): "Digital cellular telecommunications system (Phase 2); Location registration procedures".
- [20] ETS 300 532 (GSM 03.14): "Digital cellular telecommunications system (Phase 2); Support of Dual Tone Multi-Frequency signalling (DTMF) via the GSM system".
- [21] ETS 300 535 (GSM 03.22): "Digital cellular telecommunications system (Phase 2); Functions related to Mobile Station (MS) in idle mode".
- [22] ETS 300 536 (GSM 03.40): "Digital cellular telecommunications system (Phase 2); Technical realization of the Short Message Service (SMS) Point-to-Point (PP)".
- [23] ETS 300 537 (GSM 03.41): "Digital cellular telecommunications system (Phase 2); Technical realization of Short Message Service Cell Broadcast (SMSCB)".
- [24] ETS 300 550 (GSM 04.01): "Digital cellular telecommunications system (Phase 2); Mobile Station - Base Station System (MS - BSS) interface General aspects and principles".
- [25] ETS 300 552 (GSM 04.03): "Digital cellular telecommunications system (Phase 2); Mobile Station - Base Station System (MS - BSS) interface Channel structures and access capabilities".
- [26] ETS 300 553 (GSM 04.04): "Digital cellular telecommunications system (Phase 2); layer 1 General requirements".
- [27] ETS 300 554 (GSM 04.05): "Digital cellular telecommunications system (Phase 2); Data Link (DL) layer General aspects".
- [28] ETS 300 555 (GSM 04.06): "Digital cellular telecommunications system (Phase 2); Mobile Station - Base Station System (MS - BSS) interface Data Link (DL) layer specification".
- [29] ETS 300 556 (GSM 04.07): "Digital cellular telecommunications system (Phase 2); Mobile radio interface signalling layer 3 General aspects".
- [30] ETS 300 557 (GSM 04.08): "Digital cellular telecommunications system (Phase 2); Mobile radio interface layer 3 specification".
- [31] ETS 300 558 (GSM 04.10): "Digital cellular telecommunications system (Phase 2); Mobile radio interface layer 3 Supplementary services specification General aspects".

- [32] ETS 300 559 (GSM 04.11): "Digital cellular telecommunications system (Phase 2); Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface".
- [33] ETS 300 560 (GSM 04.12): "Digital cellular telecommunications system (Phase 2); Short Message Service Cell Broadcast (SMSCB) support on the mobile radio interface".
- [34] ETS 300 564 (GSM 04.80): "Digital cellular telecommunications system (Phase 2); Mobile radio interface layer 3 supplementary services specification Formats and coding".
- [35] ETS 300 565 (GSM 04.81): "Digital cellular telecommunications system (Phase 2); Line identification supplementary services - Stage 3".
- [36] ETS 300 566 (GSM 04.82): "Digital cellular telecommunications system (Phase 2); Call Forwarding (CF) supplementary services - Stage 3".
- [37] ETS 300 567 (GSM 04.83): "Digital cellular telecommunications system (Phase 2); Call Waiting (CW) and Call Hold (HOLD) supplementary services - Stage 3".
- [38] ETS 300 568 (GSM 04.84): "Digital cellular telecommunications system (Phase 2); MultiParty (MPTY) supplementary services - Stage 3".
- [39] ETS 300 569 (GSM 04.85): "Digital cellular telecommunications system (Phase 2); Closed User Group (CUG) supplementary services - Stage 3".
- [40] ETS 300 570 (GSM 04.86): "Digital cellular telecommunications system (Phase 2); Advice of Charge (AoC) supplementary services - Stage 3".
- [41] ETS 300 571 (GSM 04.88): "Digital cellular telecommunications system (Phase 2); Call Barring (CB) supplementary services - Stage 3".
- [42] ETS 300 572 (GSM 04.90): "Digital cellular telecommunications system (Phase 2); Unstructured supplementary services operation - Stage 3".
- [43] ETS 300 573 (GSM 05.01): "Digital cellular telecommunications system (Phase 2); Physical layer on the radio path General description".
- [44] ETS 300 574 (GSM 05.02): "Digital cellular telecommunications system (Phase 2); Multiplexing and multiple access on the radio path".
- [45] ETS 300 575 (GSM 05.03): "Digital cellular telecommunications system (Phase 2); Channel coding".
- [46] ETS 300 576 (GSM 05.04): "Digital cellular telecommunications system (Phase 2); Modulation".
- [47] ETS 300 577 (GSM 05.05): "Digital cellular telecommunications system (Phase 2); Radio transmission and reception".
- [48] ETS 300 578 (GSM 05.08): "Digital cellular telecommunications system (Phase 2); Radio subsystem link control".
- [49] ETS 300 579 (GSM 05.10): "Digital cellular telecommunications system (Phase 2); Radio subsystem synchronization".
- [50] ETS 300 582 (GSM 07.01): "Digital cellular telecommunications system (Phase 2); General on Terminal Adaption Functions (TAF) for Mobile Stations (MS)".

- [51] ETS 300 590 (GSM 08.08): "Digital cellular telecommunications system (Phase 2); Mobile Switching Centre - Base Station System (MSC - BSS) interface Layer 3 specification".
- [52] ETS 300 596 (GSM 08.58): "Digital cellular telecommunications system (Phase 2); Base Station Controller - Base Transceiver Station (BSC - BTS) interface Layer 3 specification".
- [53] ETS 300 599 (GSM 09.02): "Digital cellular telecommunications system (Phase 2); Mobile Application Part (MAP) specification".
- [54] ETS 300 607-1 (GSM 11.10-1): "Digital cellular telecommunications system (Phase 2); Mobile Station (MS) conformity specification".
- [55] ETS 300 607-2 (GSM 11.10-2): "Digital cellular telecommunications system (Phase 2); Mobile Station (MS) Conformance specification, Protocol Implementation Conformance Statement (ICS) Proforma".

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of this ETS, the following definitions apply:

Abstract Test Suite (ATS):	refer to ISO/IEC 9646-1 [1].
Implementation Under Test (IUT):	refer to ISO/IEC 9646-1 [1].
partial Protocol Implementation eXtra Information for Testing (IXIT):	refer to ISO/IEC 9646-1 [1].
Point of Controls and Observations (PCO):	refer to ISO/IEC 9646-1 [1].
Protocol Implementation Conformance Statement (ICS):	refer to ISO/IEC 9646-1 [1].
System Under Test (SUT):	refer to ISO/IEC 9646-1 [1].

3.2 Abbreviations

For the purposes of this ETS, the following abbreviations apply:

ATS	Abstract Test Suite
BI	Invalid Behaviour tests
BO	Inopportune Behaviour tests
BV	Valid Behaviour tests
CA	CApability tests
EDP-N	Event Detection Point - Notification
EDP-R	Event Detection Point - Request
ETS	European Telecommunication Standard
FE	Functional Entity
FSM	Finite State Machine
ICS	Implementation Conformance Statement
IUT	Implementation Under Test
IXIT	Implementation eXtra Information for Testing
PDU	Protocol Data Unit
SUT	System Under Test
TP	Test Purpose
TSS	Test Suite Structure

Further abbreviations used within GSM related ETS may be found in ETR 100.

Abbreviations for test case group names may be found in figure 1 and 2.

4 Test Suite Structure (TSS)

4.1 Test suite naming convention

The test group identifier for each group and subgroup is built according to the scheme in figure 1.

Identifier:	L3<c><s><g0><g1><g2><nn>
<c> = category:	BIT BIT, Basic Interconnection tests (not used) CA CA, Capability tests (not used) BV BV, Valid Behaviour tests BI-BO BI and BO, Invalid and Inopportune Behaviour tests
<g0> = group:	IN Initial tests ID Idle mode tests RR Radio Resource management MM Mobility Management CC Call Control SP Structured Procedures SS Supplementary services LLF Lower Layer Failures UUE Unknown, Unforeseen or erroneous Elements
<g1> = group:	CR Channel Request AT IMSI detach and IMSI attach SMT Sequenced MM / CC message transfer EC Establishment Cause IA Immediate assignment PG Test of paging MR Test of measurement report ASS Test of the channel HO Test of handover FR Test of frequency redefinition CMM Test of the channel mode modify procedure CY Test of ciphering mode setting CM Test of classmark CHR Test of channel release START Test of starting time IDAU Identification and authentication LU Location updating CON MM connection CCSMO State Machine Verification, Mobile Originating Call CCSMT State Machine Verification, Mobile Terminating Call SMICF State machine verification, In Call Functions CRE Call Re-establishment UUS User to user signalling UPD Unknown protocol discriminator TIS TI and skip indicator UMT Undefined or unexpected message type UIE Unforeseen information elements in the non-imperative NMIE Non-semantic mandatory IE errors CNR Unknown IE, comprehension not required SB Spare bits

<g2> = group:	AC	Handover / successful / active call
	CUE	Handover / successful / call under establishment
	FSY	Handover / successful / active call / finely synchronized
	PRS	Pre-synchronized handovers
	PRF	Protocol failures
	ACC	Location updating / accepted
	REJ	Location updating / rejected
	ABN	Location updating / abnormal cases
	REL	Location updating / release
	PER	Location updating / periodic
	HPER	Location updating / periodic HPLMN search
	IWAT	Location updating / interworking of attach and periodic
	EST	MM connection / establishment
	EXP	MM connection / expiry
	NWAB	MM connection / abortion by the network
	FRQP	MM connection / follow-on request pending
	U0	Mobile Originating Call U0 State
	U0.1	Mobile Originating Call U0.1 MM Connection pending
	U1	Mobile Originating Call U1 State
	U3	Mobile Originating Call U3 State
	U4	Mobile Originating Call U4 State
	U10	Mobile Originating Call U10 State
	U11	Mobile Originating Call U11 State
	U12	Mobile Originating Call U12 State
	U19	Mobile Originating Call U19 State
	U0	Mobile Terminating Call U0 State
	U6	Mobile Terminating Call U6 State
	U9	Mobile Terminating Call U9 State
	U7	Mobile Terminating Call U7 State
	U8	Mobile Terminating Call U8 State
	DTMF	State machine verification, In Call Functions / transfer
	CHC	State machine verification, In Call Functions /
	TICM	State machine verification, In Call Functions / in-
	OICM	State machine verification, In Call Functions / in-

Figure 1: Test group identifier naming convention scheme.

4.2 Suite Overview

Figure 2 shows the structure of the test suites for L3.

L3 ATS									
BV								BI/O	
IN	ID	RR	MM	CC	SP	SS	SMS	LLF	UUE

Figure 2: Test suite structure of the L3 tests

4.3 Test groups

4.3.1 Valid Behaviour tests (BV)

Predefined state transitions are considered as valid. The test purposes in the valid behaviour test subgroup cover the verification of the normal and exceptional procedures of the various Finite State Machines (FSMs), i.e. a valid behaviour test is a test where the message sequence and the message contents are considered as valid.

4.3.2 Invalid Behaviour/Inopportune Behaviour tests (BI-BO)

This test sub group verifies that the Implementation Under Test (IUT) is able to react properly having received an invalid Protocol Data Unit (PDU) or in the case an inopportune protocol event occurs. An invalid PDU is defined as a syntactically incorrect message. An inopportune event is syntactically correct

but occurs when it is not expected, e.g. a correctly coded operation is received in a wrong state (the IUT may respond Error UnexpectedComponentSequence).

4.4 Test Step Structure

4.4.1 Preambles

The preamble is defined for each test purpose.

4.4.2 Postambles

After each test case the IUT shall be brought to the state as defined in the postamble for each test purpose.

5 Test Purposes (TP)

For each conformance requirement a Test Purpose (TP) is defined. The test purposes are specified in the ATS Dynamic part (annex A).

5.1 TP and test case naming convention

In order clearly to map the conformance requirements specified in the prETS 300 607-1 and TTCN test cases in the ATS, the section numbers in the prETS 300 607-1 are used as test case names.

The identifier of each TP is identical to the name of the implemented TTCN test case.

"Test Purpose Identifier" = "Test Case Name" = TPI = TC_NN_A_B_C_D_E, where NN, A, B, C, D and E are digits used in the corresponding section numbers of prETS 300 607-1. For example, the test case name TC_26_5_6_2 is the TTCN specification corresponding to the conformance requirements in the section 26.5.6.1.2 in the prETS 300 607-1. In case where the section has been implemented in more than one test case sub numbering has been introduced. For example, the section 26.7.4.2.4 of prETS 300 607-1, Location updating/rejected/national roaming testing is split into 5 test cases. The corresponding TCs are identified as TC_26_7_4_2_4_1, TC_26_7_4_2_4_2, TC_26_7_4_2_4_3, TC_26_7_4_2_4_4 and TC_26_7_4_2_4_5, respectively.

6 Abstract test method and test configurations

The distributed test method applies to the L3 MS testing. The test method uses a lower tester and a Man-Machine Interface as an upper tester at the SUT.

6.1 Test system model

The model of the L3 test system is based on the original protocol architecture at the air interface. The test system consists conceptually of a lower tester LT, the L3 test programme (executable test suite), a L2 radio link emulator, a management functional unit, the L1 service provider and a TRx set (see figure 1).

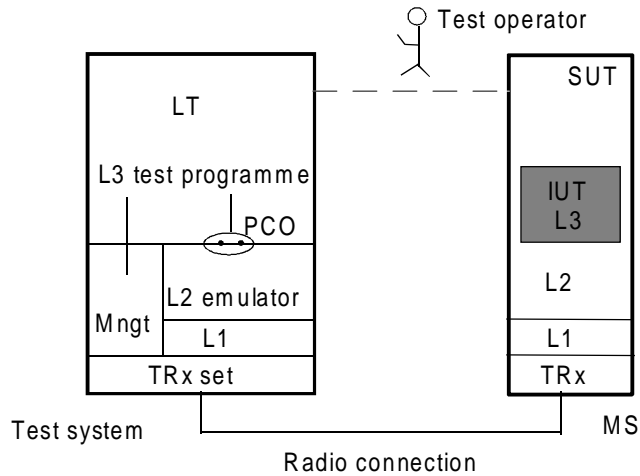


Figure 3: Test system and distributed test method

The LT provides the test environment and for test execution and the means of control and observation at the L3 lower service boundary within the test system.

The L3 TTCN test specification uses the three LT interfaces to communicate with the MS, the system under test, and with the other parts of the test system:

- Interface to the L2 emulator via the PCO,
- Interface to the management functional unit via TTCN test suite operations,
- Interface to the MS man-machine interface (MMI) via a test operator.

6.2 Test Method

The PCO in the LT is defined as L2 SAP (SAP 0 + 3). The PCO has two FIFO queues (data buffers) to store all sending and receiving test events. The L2 primitives in the ATS which constitute mainly the interface to the L2 emulator are specified via the L2 primitives. In order to simulate multicell testing as required in some test cases, the defined primitives are able to address individual cells of the test system and the logic channels of each cell for the L3 message exchanges. The L2 emulator together with the underlying L1 and the TRx set support all message exchanges via correct radio links.

The management function unit has three management functions:

- L2 and L1 management,
- Channel management,
- TRx management.

The interface to the management function unit is presented in the ATS via a set of test suite operations. The major functions of the test suite management operations are:

- To load configuration parameters necessary for the test system,
- To control and get the necessary values of radio resources/ channels for tests.

The SUT (MS) has a more or less standardized MMI, such as keys, digital display, tones, etc. The ATS uses such kind of functions to provoke some procedures or to observe simple results at the SUT side. A human operator is needed during the test. The test system shall have an interface to the human operator to enable the test co-ordination.

Annex A: Abstract Test Suite

The machine processable ATS

The electronic forms of the machine processable files (TTCN MP format) corresponding to the ATS for Layer 3 are contained in the file L3-4180.mp²) (Layer 3) on the diskette included as a part of this ETS (Part 3).

The graphical form ATS

The TTCN.GR representation of this ATS is contained in the remainder of this annex.

2) This file is located in an archive file named 6073_EO.LZH. Other file formats are available on request.

Suite overview

Suite structure

Test Suite Structure	
Suite Name:	GSM_L3_MS_v4180
Standards Ref:	ETS 300 557
PICS Ref:	
PIXIT Ref:	
Test Method(s):	Distributed Single Layer Test Method
Comments:	Version 4.18.0

Structure and Objectives			
Test Group Reference	Selection Ref	Test Group Objective	Page Nr
GSM_L3_MS_v4180/General/	SelExpr_0000	To verify the supported and non-supported services.	678
GSM_L3_MS_v4180/InitialTest/	SelExpr_0100	To verify random access procedure, IMSI attach and detach procedure, sequenced MM/CC message transfer and establishment causes.	693
GSM_L3_MS_v4180/IdleMode/	SelExpr_0200	To verify MS functions in idle mode	719
GSM_L3_MS_v4180/BiBo/	SelExpr_0300	To verify the MS handling unknown, unforeseen and erroneous protocol data, and parallel transactions	722
GSM_L3_MS_v4180/RR/	SelExpr_0400	To verify the elementary procedures for radio resource management	760
GSM_L3_MS_v4180/MM/	SelExpr_0500	To verify the elementary procedures of mobility management.	911
GSM_L3_MS_v4180/CC/	SelExpr_0600	To verify the circuit switched call control functions.	970
GSM_L3_MS_v4180/StructureProc/	SelExpr_0700	To verify the structured procedures.	1076
GSM_L3_MS_v4180/EGSMSSignalling/	SelExpr_1000	To verify the different procedures which may be impacted when some channel uses E- GSM frequencies.	1098
GSM_L3_MS_v4180/SS/	SelExpr_0800	To verify the functions of supplementary services.	1121
GSM_L3_MS_v4180/SM/	SelExpr_0900	To verify the functions of short message service.	1211
Detailed Comments:			

Test case index

Test Case Index				
Test Group Reference	Test Case Id	Selection ref	Description	Page Nr
GSM_L3_MS_v4180/General/	TC_11_1_1	SelExpr_0002	Verification of support and non-support of services (MT).	678
GSM_L3_MS_v4180/General/	TC_11_1_2	SelExpr_0007	Verification of support and non-support of services (MO).	680
GSM_L3_MS_v4180/General/	TC_11_2	SelExpr_0002	Verification of support of the single numbering scheme.	685
GSM_L3_MS_v4180/General/	TC_11_3	SelExpr_0003	Verification of non-support of services. (Advice of Charge Charging, AOCC)	686
GSM_L3_MS_v4180/General/	TC_11_4	SelExpr_0004	Verification of non-support of services. (Call Hold)	689
GSM_L3_MS_v4180/General/	TC_11_5	SelExpr_0005	Verification of non-support of services. (MultiParty)	690
GSM_L3_MS_v4180/General/	TC_11_6	SelExpr_0006	Verification of non-support of feature. (Fixed dialling number)	692
GSM_L3_MS_v4180/nitialTest/	TC_26_2_1_1	SelExpr_0101	Initial Layer 3 tests - Channel request / initial time.	693
GSM_L3_MS_v4180/nitialTest/	TC_26_2_1_2	SelExpr_0101	11.10 Ref. ver.4.10; CR Initial Layer 3 tests - Channel request / repetition time.	695
GSM_L3_MS_v4180/nitialTest/	TC_26_2_1_3	SelExpr_0101	11.10 Ref. ver.4.10; CR: C46 Initial Layer 3 tests - Channel request / random reference.	697
GSM_L3_MS_v4180/nitialTest/	TC_26_2_2	SelExpr_0101	11.10 Ref. ver.4.10; CR IMSI detach and IMSI attach.	698
GSM_L3_MS_v4180/nitialTest/	TC_26_2_3	SelExpr_0101	11.10 Ref. ver 4.10.0; CR. 0295-6r1. CR.C62r1.	700
GSM_L3_MS_v4180/nitialTest/	TC_26_2_3	SelExpr_0101	Sequenced MM / CM message transfer.	700
GSM_L3_MS_v4180/nitialTest/	TC_26_2_4_1	SelExpr_0102	Establishment Cause /pr1 (TCH)	702
GSM_L3_MS_v4180/nitialTest/	TC_26_2_4_2	SelExpr_0103	Establishment Cause /pr2 (/H)	704
GSM_L3_MS_v4180/nitialTest/	TC_26_2_4_3	SelExpr_0107	Establishment Cause /pr3 (TCH/FS)	706
GSM_L3_MS_v4180/nitialTest/	TC_26_2_4_4	SelExpr_0104	Establishment Cause /pr4 (data)	708
GSM_L3_MS_v4180/nitialTest/	TC_26_2_4_5	SelExpr_0101	Establishment Cause /pr5	710
GSM_L3_MS_v4180/nitialTest/	TC_26_2_4_6	SelExpr_0101	Establishment Cause /pr6	713
GSM_L3_MS_v4180/nitialTest/	TC_26_2_4_7	SelExpr_0105	Establishment Cause /pr7 (non-call-SS)	716
GSM_L3_MS_v4180/nitialTest/	TC_26_2_4_8	SelExpr_0106	Establishment Cause /pr8 (SMS/PP MO)	718
GSM_L3_MS_v4180/dleMode/	TC_26_3_2	SelExpr_0201	MS indication of available PLMNs	719
GSM_L3_MS_v4180/dleMode/	TC_26_3_3	SelExpr_0201	MS will send only if BSS is "on air".	720
GSM_L3_MS_v4180/dleMode/	TC_26_3_4	SelExpr_0201	Manual mode of PLMN selection	721
GSM_L3_MS_v4180/BiBo/	TC_26_5_1	SelExpr_0302	11.10 Ref. ver. 4.10.0; CR. 11.10-661. C64 Handling of unknown protocol discriminator	722
GSM_L3_MS_v4180/BiBo/	TC_26_5_2_1_1	SelExpr_0302	Handling of unknown TI and skip indicator / RR	723
GSM_L3_MS_v4180/BiBo/	TC_26_5_2_1_2	SelExpr_0302	TI Skip indicator / RR / RR Connection established	724
GSM_L3_MS_v4180/BiBo/	TC_26_5_2_2	SelExpr_0302	TI and skip indicator / MM	726
GSM_L3_MS_v4180/BiBo/	TC_26_5_2_3	SelExpr_0301	TI and skip indicator / CC	728
GSM_L3_MS_v4180/BiBo/	TC_26_5_3_1	SelExpr_0301	Undefined or unexpected Message type / undefined message type / CC	730
GSM_L3_MS_v4180/BiBo/	TC_26_5_3_2	SelExpr_0301	Undefined or unexpected message type / undefined message type / MM	731

GSM_L3_MS_v4180/ BiBo/	TC_26_5_3_3	SelExpr_0302	Undefined or unexpected message type / undefined message type / RR	732
GSM_L3_MS_v4180/ BiBo/	TC_26_5_3_4	SelExpr_0301	Undefined or unexpected message type / unexpected message type / CC	733
GSM_L3_MS_v4180/ BiBo/	TC_26_5_4_1	SelExpr_0302	Unforeseen info elements in non-imperative message part / duplicated info elements	734
GSM_L3_MS_v4180/ BiBo/	TC_26_5_5_1_1_1	SelExpr_0302	Non-semantic mandatory IE errors / RR / missing mandatory IE error / special case	735
GSM_L3_MS_v4180/ BiBo/	TC_26_5_5_1_1_2	SelExpr_0302	Non-semantic mandatory IE errors / RR / missing mandatory IE error / general case	736
GSM_L3_MS_v4180/ BiBo/	TC_26_5_5_1_2	SelExpr_0302	Non-semantic mandatory ie errors / RR / comprehension required	737
GSM_L3_MS_v4180/ BiBo/	TC_26_5_5_2_1	SelExpr_0301	Non-semantic mandatory IE errors / MM / syntactically incorrect mandatory IE	738
GSM_L3_MS_v4180/ BiBo/	TC_26_5_5_2_2	SelExpr_0302	Non-semantic mandatory IE errors / MM / syntactically incorrect mandatory IE 11.10 Ref. ver. 4.10.0; CR. 11.10-688	739
GSM_L3_MS_v4180/ BiBo/	TC_26_5_5_2_3	SelExpr_0302	Non-semantic mandatory IE errors / MM / syntactically incorrect mandatory IE	740
GSM_L3_MS_v4180/ BiBo/	TC_26_5_5_3_1_1	SelExpr_0301	Non-semantic mandatory IE errors / CC / missing mandatory IE / disconnect message	742
GSM_L3_MS_v4180/ BiBo/	TC_26_5_5_3_1_2	SelExpr_0301	Non-semantic mandatory IE errors / CC / missing mandatory IE / general case	743
GSM_L3_MS_v4180/ BiBo/	TC_26_5_5_3_2	SelExpr_0301	Non-semantic mandatory IE errors / CC / comprehension required	744
GSM_L3_MS_v4180/ BiBo/	TC_26_5_6_1_1	SelExpr_0302	Unknown IE, comprehension not required / MM / IE unknown in the protocol	745
GSM_L3_MS_v4180/ BiBo/	TC_26_5_6_1_2	SelExpr_0302	Unknown IE, comprehension not required / MM / IE unknown in the message	747
GSM_L3_MS_v4180/ BiBo/	TC_26_5_6_2_1	SelExpr_0301	Unknown info elements in the non-imperative message part / CC / Call establishment	748
GSM_L3_MS_v4180/ BiBo/	TC_26_5_6_2_2	SelExpr_0301	Unknown information elements in the non- imperative message part / CC / disconnect	749
GSM_L3_MS_v4180/ BiBo/	TC_26_5_6_2_3	SelExpr_0301	Unknown information elements in the non- imperative message part / CC / release	750
GSM_L3_MS_v4180/ BiBo/	TC_26_5_6_2_4	SelExpr_0301	Unknown info elements in the non-imperative message part / CC / release complete	751
GSM_L3_MS_v4180/ BiBo/	TC_26_5_6_3	SelExpr_0302	Unknown IE in the non-imperative message part, comprehension not required / RR / unknown in the protocol.	752
GSM_L3_MS_v4180/ BiBo/	TC_26_5_7_1_1	SelExpr_0302	Spare bits / RR / paging channel	753
GSM_L3_MS_v4180/ BiBo/	TC_26_5_7_1_2	SelExpr_0302	Spare bits / RR / BCCH	754
GSM_L3_MS_v4180/ BiBo/	TC_26_5_7_1_3	SelExpr_0302	pare bits / RR / AGCH	755
GSM_L3_MS_v4180/ BiBo/	TC_26_5_7_1_4	SelExpr_0302	Spare bits / RR / connected mode	756
GSM_L3_MS_v4180/ BiBo/	TC_26_5_7_2	SelExpr_0302	Spare bits / MM	757
GSM_L3_MS_v4180/ BiBo/	TC_26_5_7_3	SelExpr_0301	Spare bits / CC	758
GSM_L3_MS_v4180/ RR/	TC_26_6_1_1	SelExpr_0401	Immediate Assignment / SDCCH or TCH assignment	760
GSM_L3_MS_v4180/ RR/	TC_26_6_1_2	SelExpr_0401	Immediate Assignment / extended assignment	762
GSM_L3_MS_v4180/ RR/	TC_26_6_1_3	SelExpr_0401	Immediate Assignment / assignment rejection	765
GSM_L3_MS_v4180/ RR/	TC_26_6_1_4	SelExpr_0401	Immediate Assignment / ignore assignment	768
GSM_L3_MS_v4180/ RR/	TC_26_6_1_5	SelExpr_0401	Immediate Assignment after immediate assignment reject	770
GSM_L3_MS_v4180/ RR/	TC_26_6_2_1_1	SelExpr_0401	Paging / normal / type 1	771
GSM_L3_MS_v4180/ RR/	TC_26_6_2_1_2	SelExpr_0401	Paging / normal / type 2	773
GSM_L3_MS_v4180/ RR/	TC_26_6_2_1_3	SelExpr_0401	Paging / normal / type 3	775
GSM_L3_MS_v4180/ RR/	TC_26_6_2_2	SelExpr_0401	Paging / extended	777
GSM_L3_MS_v4180/ RR/	TC_26_6_2_3_1	SelExpr_0401	Paging / reorganisation / procedure 1	781

RR/ GSM_L3_MS_v4180/ RR/	TC_26_6_2_3_2	SelExpr_0401	Paging / reorganisation / procedure 2	783
GSM_L3_MS_v4180/ RR/	TC_26_6_2_4	SelExpr_0401	Paging / same as before	784
GSM_L3_MS_v4180/ RR/	TC_26_6_2_5	SelExpr_0401	Multislot CCCH handling	785
GSM_L3_MS_v4180/ RR/	TC_26_6_3_1	SelExpr_0402	Measurement / no neighbour	787
GSM_L3_MS_v4180/ RR/	TC_26_6_3_2	SelExpr_0402	Measurement / all neighbours present	789
GSM_L3_MS_v4180/ RR/	TC_26_6_3_3	SelExpr_0402	Measurement / barred cells and non-permitted NCCs	791
GSM_L3_MS_v4180/ RR/	TC_26_6_3_4	SelExpr_0402	Measurement / DTX	793
GSM_L3_MS_v4180/ RR/	TC_26_6_3_5	SelExpr_0402	Measurement / frequency formats	797
GSM_L3_MS_v4180/ RR/	TC_26_6_4_1	SelExpr_0401	Dedicated assignment / Successful case	799
GSM_L3_MS_v4180/ RR/	TC_26_6_4_2_1	SelExpr_0402	Dedicated assignment / failure / failure during active state	805
GSM_L3_MS_v4180/ RR/	TC_26_6_4_2_2	SelExpr_0401	Dedicated assignment / failure / general case	807
GSM_L3_MS_v4180/ RR/	TC_26_6_5_1	SelExpr_0402	Handover / successful / active call / non-synchronized	809
GSM_L3_MS_v4180/ RR/	TC_26_6_5_2_1	SelExpr_0410	Retransmit L3-msg during non synchr. HO from SDCCH/4_nonFH to TCH/F_FH.	813
GSM_L3_MS_v4180/ RR/	TC_26_6_5_2_2	SelExpr_0408	Retransmit L3-msg during non synchr. HO from SDCCH/4_nonFH to TCH/H_FH.	815
GSM_L3_MS_v4180/ RR/	TC_26_6_5_2_3	SelExpr_0410	Retransmit L3-msg during non synchr. HO from SDCCH/4_nonFH to SDCCH/8_FH.	817
GSM_L3_MS_v4180/ RR/	TC_26_6_5_2_4	SelExpr_0410	Retransmit L3-msg during non synchr. HO from SDCCH/8_nonFH in cell A to SDCCH/8_FH in cellB.	819
GSM_L3_MS_v4180/ 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.	821
GSM_L3_MS_v4180/ 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.	823
GSM_L3_MS_v4180/ 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.	825
GSM_L3_MS_v4180/ 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.	827
GSM_L3_MS_v4180/ 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.	829
GSM_L3_MS_v4180/ 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.	831
GSM_L3_MS_v4180/ RR/	TC_26_6_5_3_1	SelExpr_0402	synchronised HO from TCH/F_FH in cellA to TCH/F_nonFH in cellB.	833
GSM_L3_MS_v4180/ RR/	TC_26_6_5_3_2	SelExpr_0408	synchronised HO from TCH/H_FH in cellA to TCH/H_nonFH in cellB.	835
GSM_L3_MS_v4180/ RR/	TC_26_6_5_4_1	SelExpr_0410	Handover/ successful/ call under establishment/ finely synchronized (HO: SDCCH8/FH -> SDCCH/8_FH)	837
GSM_L3_MS_v4180/ RR/	TC_26_6_5_4_2	SelExpr_0410	Handover/ successful/ call under establishment/ finely synchronized (HO: SDCCH8/FH -> SDCCH/4_noFH)	839
GSM_L3_MS_v4180/ RR/	TC_26_6_5_4_3	SelExpr_0410	Handover/ successful/ call under establishment/ finely synchronized (HO: TCH/F_NoFH -> TCH/F_FH)	841
GSM_L3_MS_v4180/ RR/	TC_26_6_5_4_4	SelExpr_0410	Handover/ successful/ call under establishment/ finely synchronized (HO: SDCCH8_NoFH -> TCH/F_NoFH)	843
GSM_L3_MS_v4180/ RR/	TC_26_6_5_5_1	SelExpr_0402	Handover / successful / active call / pre-synchronised / Timing Advance IE not included	845

GSM_L3_MS_v4180/ RR/	TC_26_6_5_5_2	SelExpr_0410	Handover / successful / call being estab. / pre-synch. /Tim. Advance IE is included / reporting of observed. time diff requested	847
GSM_L3_MS_v4180/ RR/	TC_26_6_5_6	SelExpr_0409	Handover / successful / active call / pseudo - synchronised	850
GSM_L3_MS_v4180/ RR/	TC_26_6_5_7	SelExpr_0402	Handover / successful / active call / non-synchronised / reporting of observed. Time diff requested	852
GSM_L3_MS_v4180/ RR/	TC_26_6_5_8	SelExpr_0402	Handover / L3-failure 11.10 Ref. ver.4.10.0; CR 11.10-720	854
GSM_L3_MS_v4180/ RR/	TC_26_6_5_9	SelExpr_0402	Handover / L1-failure 11.10 Ref. ver.4.10.0; CR 11.10-720	856
GSM_L3_MS_v4180/ RR/	TC_26_6_6_1	SelExpr_0401	Frequency redefinition	858
GSM_L3_MS_v4180/ RR/	TC_26_6_7_1	SelExpr_0403	Channel mode modify / full rate	862
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			Outgoing call / U0.1 MM connection pending /	

CC/			CM service rejected	
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GSM_L3_MS_v4180/ CC/	TC_26_8_1_2_4_8	SelExpr_0601	Outgoing call / U3 MS originating call proceeding / termination requested by the user	989
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GSM_L3_MS_v4180/ CC/	TC_26_8_1_2_4_11	SelExpr_0601	Outgoing call / U3 MS originating call proceeding / lower layer failure	992
GSM_L3_MS_v4180/ CC/	TC_26_8_1_2_4_12	SelExpr_0601	Outgoing call / U3 MS originating call proceeding / unknown message received	993
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GSM_L3_MS_v4180/ CC/	TC_26_8_1_2_5_2	SelExpr_0601	Outgoing call / U4 call delivered / termination requested by the user	996
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GSM_L3_MS_v4180/ CC/	TC_26_8_1_2_5_6	SelExpr_0601	Outgoing call / U4 call delivered / lower layer failure	1000
GSM_L3_MS_v4180/ CC/	TC_26_8_1_2_5_7	SelExpr_0601	Outgoing call / U4 call delivered / traffic channel allocation	1001
GSM_L3_MS_v4180/ CC/	TC_26_8_1_2_5_8	SelExpr_0601	Outgoing call / U4 call delivered / unknown message received	1002
GSM_L3_MS_v4180/ CC/	TC_26_8_1_2_6_1	SelExpr_0601	U10 call active / termination requested by the user	1003
GSM_L3_MS_v4180/ CC/	TC_26_8_1_2_6_2	SelExpr_0601	10 call active / RELEASE received	1004
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CC/			tones	
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CC/				
GSM_L3_MS_v4180/	TC_26_8_1_2_6_5	SelExpr_0601	U10 call active / RELEASE COMPLETE received	1007
CC/				
GSM_L3_MS_v4180/	TC_26_8_1_2_6_6	SelExpr_0601	U10 call active / SETUP received	1008
CC/				
GSM_L3_MS_v4180/	TC_26_8_1_2_7_1	SelExpr_0601	U11 disconnect request / clear collision	1009
CC/				
GSM_L3_MS_v4180/	TC_26_8_1_2_7_2	SelExpr_0601	U11 disconnect request / RELEASE received	1010
CC/				
GSM_L3_MS_v4180/	TC_26_8_1_2_7_3	SelExpr_0601	U11 disconnect request / timer T305 timeout	1011
CC/				
GSM_L3_MS_v4180/	TC_26_8_1_2_7_4	SelExpr_0601	U11 disconnect request / lower layer failure	1012
CC/				
GSM_L3_MS_v4180/	TC_26_8_1_2_7_5	SelExpr_0601	U11 disconnect request / unknown message received	1013
CC/				
GSM_L3_MS_v4180/	TC_26_8_1_2_8_1	SelExpr_0604	U12 disconnect indication / call releasing requested by the user	1014
CC/				
GSM_L3_MS_v4180/	TC_26_8_1_2_8_2	SelExpr_0604	U12 disconnect indication / RELEASE received	1015
CC/				
GSM_L3_MS_v4180/	TC_26_8_1_2_8_3	SelExpr_0604	U12 disconnect indication / lower layer failure	1016
CC/				
GSM_L3_MS_v4180/	TC_26_8_1_2_8_4	SelExpr_0604	U12 disconnect indication / unknown message received	1017
CC/				
GSM_L3_MS_v4180/	TC_26_8_1_2_9_1	SelExpr_0601	Outgoing call / U19 release request / timer T308 timeout	1018
CC/				
GSM_L3_MS_v4180/	TC_26_8_1_2_9_2	SelExpr_0601	Outgoing call / U19 release request / 2nd timer T308 timeout	1019
CC/				
GSM_L3_MS_v4180/	TC_26_8_1_2_9_3	SelExpr_0601	Outgoing call / U19 release request / RELEASE received	1020
CC/				
GSM_L3_MS_v4180/	TC_26_8_1_2_9_4	SelExpr_0601	Outgoing call / U19 release request / RELEASE COMPLETE received	1021
CC/				
GSM_L3_MS_v4180/	TC_26_8_1_2_9_5	SelExpr_0601	Outgoing call / U19 release request / lower layer failure	1022
CC/				
GSM_L3_MS_v4180/	TC_26_8_1_3_1_1	SelExpr_0600	Incoming call / U0 null state / SETUP received with a non supported bearer capability	1023
CC/				
GSM_L3_MS_v4180/	TC_26_8_1_3_2_1	SelExpr_0603	Incoming call / U6 call present / automatic call rejection	1024
CC/				
GSM_L3_MS_v4180/	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.	1025
CC/				
GSM_L3_MS_v4180/	TC_26_8_1_3_3_2	SelExpr_0602	Incoming call / U9 mobile terminating call confirmed / TCH assignment	1026
CC/				
GSM_L3_MS_v4180/	TC_26_8_1_3_3_3	SelExpr_0602	Incoming call / U9 mobile terminating call confirmed / termination requested by the user	1027
CC/				
GSM_L3_MS_v4180/	TC_26_8_1_3_3_4	SelExpr_0602	Incoming call / U9 mobile terminating call confirmed / DISCONNECT received	1028
CC/				
GSM_L3_MS_v4180/	TC_26_8_1_3_3_5	SelExpr_0602	Incoming call / U9 mobile terminating call confirmed / RELEASE received	1029
CC/				
GSM_L3_MS_v4180/	TC_26_8_1_3_3_6	SelExpr_0602	Incoming call / U9 mobile terminating call confirmed / lower layer failure	1030
CC/				
GSM_L3_MS_v4180/	TC_26_8_1_3_3_7	SelExpr_0602	Incoming call / U9 mobile terminating call confirmed / unknown message received	1031
CC/				
GSM_L3_MS_v4180/	TC_26_8_1_3_4_1	SelExpr_0602	Incoming call / U7 call received / call accepted	1032
CC/				
GSM_L3_MS_v4180/	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.	1033
CC/				
GSM_L3_MS_v4180/	TC_26_8_1_3_4_3	SelExpr_0602	Incoming call / U7 call received / DISCONNECT received	1034
CC/				
GSM_L3_MS_v4180/	TC_26_8_1_3_4_4	SelExpr_0602	Incoming call / U7 call received / RELEASE received	1035
CC/				
GSM_L3_MS_v4180/	TC_26_8_1_3_4_5	SelExpr_0602	Incoming call / U7 call received / lower layer failure	1036
CC/				
GSM_L3_MS_v4180/	TC_26_8_1_3_4_6	SelExpr_0602	Incoming call / U7 call received / unknown message received	1037
CC/				
GSM_L3_MS_v4180/	TC_26_8_1_3_4_7	SelExpr_0602	Incoming call / U7 call received / TCH assignment	1038
CC/				

GSM_L3_MS_v4180/ CC/	TC_26_8_1_3_4_8	SelExpr_0602	Incoming call / U7 call received / RELEASE COMPLETE received	1039
GSM_L3_MS_v4180/ CC/	TC_26_8_1_3_5_1	SelExpr_0602	Incoming call / U8 connect request / CONNECT acknowledged	1040
GSM_L3_MS_v4180/ CC/	TC_26_8_1_3_5_2	SelExpr_0602	Incoming call / U8 connect request / timer T313 timeout	1041
GSM_L3_MS_v4180/ CC/	TC_26_8_1_3_5_3	SelExpr_0602	Incoming call / U8 connect request / termination requested by the user	1042
GSM_L3_MS_v4180/ CC/	TC_26_8_1_3_5_4	SelExpr_0602	Incoming call / U8 connect request / DISCONNECT received with in-band information	1043
GSM_L3_MS_v4180/ CC/	TC_26_8_1_3_5_5	SelExpr_0602	Incoming call / U8 connect request / DISCONNECT received without in-band information	1044
GSM_L3_MS_v4180/ CC/	TC_26_8_1_3_5_6	SelExpr_0602	Incoming call / U8 connect request / RELEASE received	1045
GSM_L3_MS_v4180/ CC/	TC_26_8_1_3_5_7	SelExpr_0602	Incoming call / U8 connect request / lower layer failure	1046
GSM_L3_MS_v4180/ CC/	TC_26_8_1_3_5_8	SelExpr_0602	Incoming call / U8 connect request / TCH assignment	1047
GSM_L3_MS_v4180/ CC/	TC_26_8_1_3_5_9	SelExpr_0602	Incoming call / U8 connect request / unknown message received	1048
GSM_L3_MS_v4180/ CC/	TC_26_8_1_4_1_1	SelExpr_0604	In-call functions / DTMF information transfer / basic procedure	1049
GSM_L3_MS_v4180/ CC/	TC_26_8_1_4_2_1	SelExpr_0606	In-call functions / User notification / MS terminated	1051
GSM_L3_MS_v4180/ CC/	TC_26_8_1_4_3_1	SelExpr_0606	In-call functions / Channel changes / A successful channel change in active state/ Handover and assignment command	1052
GSM_L3_MS_v4180/ 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	1054
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GSM_L3_MS_v4180/ CC/	TC_26_8_1_4_5_2	SelExpr_0607	In-call functions / MS originated in-call modification / modify rejected	1059
GSM_L3_MS_v4180/ CC/	TC_26_8_1_4_5_3	SelExpr_0607	In-call functions / MS originated in-call modification / an abnormal case of acceptance	1060
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GSM_L3_MS_v4180/ CC/	TC_26_8_1_4_5_5	SelExpr_0607	In-call functions / MS originated in-call modification / timeout of timer T323	1062
GSM_L3_MS_v4180/ CC/	TC_26_8_1_4_5_6	SelExpr_0607	In-call functions / MS originated in-call modification / A successful channel change in state mobile originating modify	1063
GSM_L3_MS_v4180/ CC/	TC_26_8_1_4_5_7	SelExpr_0607	In-call functions / MS originated in-call modification / An unsuccessful channel change in state mobile originating modify	1065
GSM_L3_MS_v4180/ CC/	TC_26_8_1_4_5_8	SelExpr_0607	In-call functions / MS originated in-call modification / unknown message received	1067
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GSM_L3_MS_v4180/Miscellaneous/	Check_Time	The test step calls FnArith to calculate the MS return time for AOC acknowledge stored in TCV_Time.	1277
GSM_L3_MS_v4180/Miscellaneous/	CheckTIsInStateU0		1278
GSM_L3_MS_v4180/Miscellaneous/	ChkMsrmtRpt		1278
GSM_L3_MS_v4180/Miscellaneous/	Ciphering_off	To switch off the ciphering. In presteps the ciphering shall be switched on.	1278
GSM_L3_MS_v4180/Miscellaneous/	Ciphering_on	To switch on the ciphering.	1279
GSM_L3_MS_v4180/Miscellaneous/	CMsrvcRq	To request a CM service	1279
GSM_L3_MS_v4180/Miscellaneous/	DTMFSignalling	To handle DTMF signalling initiated by the MS, which sends 'n' tones to the network.	1279
GSM_L3_MS_v4180/Miscellaneous/	EstablishFacMO		1280
GSM_L3_MS_v4180/Miscellaneous/	FnArith	To calculate the difference of two frame numbers 'fn1'	1280

GSM_L3_MS_v4180/Miscellaneous/	IdentityRequest	and 'fn'. The test step uses TCV_Cnt1, TCV_Cnt2, TCV_K and TCV_Time. To execute the identity procedure depending on the given identity type. Used var's: TCV_ch, TCV_tmsi	1281
GSM_L3_MS_v4180/Miscellaneous/	ImsiAttach	If possible, SIM_Insert or PowerUp or SwitchOn, and then to execute the IMSI Attach procedure when ATT=1. This test step does not allowed to execute the switch-on even if the MS supports both the SIM insert attach and the soft switch-on attach.	1282
GSM_L3_MS_v4180/Miscellaneous/	ImsiAttachIni	If possible, SIM_Insert or PowerUp or SwitchOn, and then to execute the IMSI Attach procedure when ATT=1. This test step does not allowed to execute the switch-on even if the MS supports both the SIM insert attach and the soft switch-on attach.	1283
GSM_L3_MS_v4180/Miscellaneous/	ImsiAttachNoReaction	If possible, SIM_Insert or PowerUp or SwitchOn, and then to execute the IMSI Attach procedure when ATT=1. This test step does not allowed to execute the switch-on even if the MS supports both the SIM insert attach and the soft switch-on attach.	1284
GSM_L3_MS_v4180/Miscellaneous/	ImsiDetach	If possible, SIM_Remove or PowerDown or SwitchOff, and then to execute the IMSI Detach procedure. This test step does not allowed to execute the switch-off even if the MS supports both the SIM remove detach and the soft switch-off detach.	1285
GSM_L3_MS_v4180/Miscellaneous/	ImsiDetachNoReaction	If possible, SIM_Remove or PowerDown or SwitchOff, and then wait for no reaction from the MS.	1286
GSM_L3_MS_v4180/Miscellaneous/	InCallModi1		1286
GSM_L3_MS_v4180/Miscellaneous/	MM_LUP	To execute the Location Update Procedure. The parameter lup_mi is the actual mi of MS before MM_LUP.	1286
GSM_L3_MS_v4180/Miscellaneous/	MM_LUP2	To execute the Location Update Procedure. The parameter lup_mi is the actual mi of MS before MM_LUP.	1287
GSM_L3_MS_v4180/Miscellaneous/	MM_LUP3	To execute the normal Location Update Procedure. No check of parameter.	1287
GSM_L3_MS_v4180/Miscellaneous/	MM_LupAndStop	To execute the initialisation of the Location Update Procedure.	1287
GSM_L3_MS_v4180/Miscellaneous/	MM_LupAuthRpt	To initialise Location Update and repeated Authentication procedures till T3210 times out.	1288
GSM_L3_MS_v4180/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.	1288
GSM_L3_MS_v4180/Miscellaneous/	MM_LUPauth2	To execute the Location Update Procedure with authentication. Checking of the parameter LAI, MSCClassMark and Mobile Identity is required.	1289
GSM_L3_MS_v4180/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.	1289
GSM_L3_MS_v4180/Miscellaneous/	MM_LupInit	To execute the initialisation of the Location Update Procedure.	1290
GSM_L3_MS_v4180/Miscellaneous/	MM_LupInit2	To execute the initialisation of the Location Update Procedure.	1290
GSM_L3_MS_v4180/Miscellaneous/	MM_LupInit3	To execute the initialisation of the Location Update Procedure.	1291
GSM_L3_MS_v4180/Miscellaneous/	MM_LupInit4	To execute the initialisation of the Location Update Procedure.	1291
GSM_L3_MS_v4180/Miscellaneous/	MM_LupInit5	To execute the initialisation of the Location Update Procedure.	1292
GSM_L3_MS_v4180/Miscellaneous/	MM_LupInit6	To execute the initialisation of the Location Update Procedure.	1292
GSM_L3_MS_v4180/Miscellaneous/	MM_LUP_tmsirealloc	To execute the Location Update Procedure. The parameter expected lup_mi is the actual mi of MS before MM_LUP. The expected lup_mi is not used in this teststep, it is not required to check it. The test step is called in TC_26_7_1.	1292
GSM_L3_MS_v4180/Miscellaneous/	MM_LUPper	To execute the periodic Location Update Procedure.	1293
GSM_L3_MS_v4180/Miscellaneous/	MM_LUPper2	To execute the periodic Location Update Procedure.	1293
GSM_L3_MS_v4180/Miscellaneous/	MM_LUPperauth	To execute the periodic Location Update Procedure.	1293
GSM_L3_MS_v4180/Miscellaneous/	MM_LUPperrej	To execute the periodic Location Update Procedure.	1294

GSM_L3_MS_v4180/Miscellaneous/	MM_LUPperrej2	To execute the Location Update Procedure, which shall be rejected.	1294
GSM_L3_MS_v4180/Miscellaneous/	MM_LUPperrej3	To execute the Location Updating Procedure, which shall be stopped with channel release.	1294
GSM_L3_MS_v4180/Miscellaneous/	MM_LupRej	To execute the Location Update Procedure, which shall be rejected.	1295
GSM_L3_MS_v4180/Miscellaneous/	MM_LupRej2	To execute the Location Update Procedure, which shall be rejected.	1295
GSM_L3_MS_v4180/Miscellaneous/	MM_PwrOrSimOff	If possible, remove SIM card or to switch off the MS or to remove power source.	1295
GSM_L3_MS_v4180/Miscellaneous/	MM_PwrOrSimOn	If possible to insert the SIM card or to switch on the MS or to restore the power source.	1295
GSM_L3_MS_v4180/Miscellaneous/	MM_check_ecall1	To check, if MS execute the emergency call.	1296
GSM_L3_MS_v4180/Miscellaneous/	MM_check_ecall2	To check, if MS execute the emergency call with IMSI	1297
GSM_L3_MS_v4180/Miscellaneous/	MM_no_cm��ervices	To check, if MS doesn't execute a MO CM connection procedure.	1297
GSM_L3_MS_v4180/Miscellaneous/	MM_no_paging	To check, if MS doesn't initiate a RR connection. The duration of the checking is set in given par.	1298
GSM_L3_MS_v4180/Miscellaneous/	NoReaction	To check whether MS doesn't initiate any RR connections.	1298
GSM_L3_MS_v4180/Miscellaneous/	RR_hocomp1	To finish the HO-procedure in non-synchronized HO cases.	1298
GSM_L3_MS_v4180/Miscellaneous/	RR_hocomp3	To finish the HO-procedure in synchronized HO cases.	1299
GSM_L3_MS_v4180/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.	1299
GSM_L3_MS_v4180/Miscellaneous/	RcvSetupOrEsetup		1300
GSM_L3_MS_v4180/Miscellaneous/	SendSeqNo_chk	check sending sequence number.	1300
GSM_L3_MS_v4180/Miscellaneous/	SelectPagingCh		1301
GSM_L3_MS_v4180/Miscellaneous/	Set_CellChDescr	To set the cell channel description	1302
GSM_L3_MS_v4180/Miscellaneous/	SetupRcvMo2		1302
GSM_L3_MS_v4180/Miscellaneous/	Switchcell_A2B		1302
GSM_L3_MS_v4180/Miscellaneous/	Switchcell_B2A		1302
GSM_L3_MS_v4180/Miscellaneous/	SvcSupportedChk	To check whether the Basic Service svc is supported against PICS answers.	1303
GSM_L3_MS_v4180/Miscellaneous/	Timadv_Pwrlvl_chk	To check the power level and the timing advance in L1 head.	1304
GSM_L3_MS_v4180/Miscellaneous/	TmsiReallocation	To execute the TMSI reallocation procedure. Used var's: TCV_ch	1304
GSM_L3_MS_v4180/Miscellaneous/	Varinit_fixcommon		1304
GSM_L3_MS_v4180/Miscellaneous/	Varinit_fix		1304
GSM_L3_MS_v4180/Miscellaneous/	Varinit_fixA		1305
GSM_L3_MS_v4180/Miscellaneous/	Varinit_fixB		1305
GSM_L3_MS_v4180/Miscellaneous/	Varinit_fixC		1305
GSM_L3_MS_v4180/Miscellaneous/	Varinit_fixH		1306
GSM_L3_MS_v4180/Miscellaneous/	WaitForInService	To wait until the MS enters the Idle and updated state.	1306
GSM_L3_MS_v4180/Miscellaneous/SysInfo/	ChgLAC_A	To change the LAC of cell A.	1306
GSM_L3_MS_v4180/Miscellaneous/SysInfo/	ChgLAC_B	To change the LAC of cell B.	1307
GSM_L3_MS_v4180/Miscellaneous/SysInfo/	ChgLAI_C	To change the LAI of cell C to HPLMN.	1308
GSM_L3_MS_v4180/Miscellaneous/SysInfo/	SysInfoSending_cbms	To send system information messages for the CBMS tests.	1309
GSM_L3_MS_v4180/Miscellaneous/SysInfo/	SysInfoSending_fh	To send system information messages for the L3 tests. The following parameters specified by input parameters.	1310
GSM_L3_MS_v4180/Miscellaneous/SysInfo/	SysInfoSending_nfh	To send system information messages with default parameters defined for L3 tests for which no other special parameters indicated.	1311
GSM_L3_MS_v4180/Miscellaneous/SysInfo/	SysInfoSending_e	Sending of Systeminformation for cell A in EGSM test case TC_26_10_2_2.	1312
GSM_L3_MS_v4180/Miscellaneous/SysInfo/	SysInfo_SacchSending	To send SYSTEM INFORMATION 5 and 6 messages defined by parameters 'sysinfo5_pdu' and 'sysinfo6_pdu' in the parametrized 'ch' channel.	1313
GSM_L3_MS_v4180/Miscellaneous/SysInfo/	SysInfo_5bisSending	To send SYSTEM INFORMATION 5bis message defined by parameters 'sysinfo5bis_pdu' in the	1313

GSM_L3_MS_v4180/Miscellaneous/SysInfo/	SetNECI	parametrized 'ch' channel. To set the NECI =1.	1314
GSM_L3_MS_v4180/Miscellaneous/SysInfo/	SetATT	To set the ATT flag to "MS's in the cell should apply IMSI attach and detach procedure"	1315
GSM_L3_MS_v4180/OperatorOP/	InitCall	To initiate a call of the basic service 'srv'.	1316
GSM_L3_MS_v4180/OperatorOP/	InitNonCallSupp	To attempt a non call related supplementary service at the MS under test.	1316
GSM_L3_MS_v4180/OperatorOP/	AtmpShortMsg	To attempt an MO short message service transaction at the MS under test.	1316
GSM_L3_MS_v4180/OperatorOP/	CheckUssdStringDisplayed	To check whether the correct USSD String is displayed on the MS	1316
GSM_L3_MS_v4180/OperatorOP/	PLMNsCHK	To check whether the MS presents a list of available PLMNs.	1316
GSM_L3_MS_v4180/OperatorOP/	RFtransCHK	To check whether the MS transmits any radio signal.	1317
GSM_L3_MS_v4180/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.	1317
GSM_L3_MS_v4180/Postambles/	PostMainLinkRel	To release the main signalling link 'ch', and bring the MS back to Idle state.	1317
GSM_L3_MS_v4180/Postambles/	ChanRel	To release the RR connection on the channel TCV_ch and bring the MS back to Idle state.	1317
GSM_L3_MS_v4180/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).	1318
GSM_L3_MS_v4180/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.	1318
GSM_L3_MS_v4180/Postambles/	RmvForbiddenPlmn	To remove a forbidden PLMN (C_PLMN_2) of cell B in the list on SIM.	1318
GSM_L3_MS_v4180/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.	1319
GSM_L3_MS_v4180/Preambles/	BasicServiceMOorTelephony	To get a MO SETUP message with right BC IE.	1321
GSM_L3_MS_v4180/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.	1322
GSM_L3_MS_v4180/Preambles/	BasicServiceMTorTelephony	To get a MT SETUP message with right BC IE.	1323
GSM_L3_MS_v4180/Preambles/	BS2xMO	MO SETUP message with right Bcap for BS2x service.	1324
GSM_L3_MS_v4180/Preambles/	BS2xMT	MT SETUP message with right Bcap for BS2x service.	1327
GSM_L3_MS_v4180/Preambles/	BS3xMO	MO SETUP message with right Bcap for BS3x service.	1330
GSM_L3_MS_v4180/Preambles/	BS3xMT	MT SETUP message with right Bcap for BS3x service.	1333
GSM_L3_MS_v4180/Preambles/	BS4xMO	MO SETUP message with right Bcap for BS4x service.	1338
GSM_L3_MS_v4180/Preambles/	BS5xMO	MO SETUP message with right Bcap for BS5x service.	1340
GSM_L3_MS_v4180/Preambles/	BS61or81MO	To get a MO SETUP message with right BC IE for BS61 or BS81 service.	1341
GSM_L3_MS_v4180/Preambles/	BS61or81MT	To get a MT SETUP message with right BC IE for BS61 or BS81 service.	1345
GSM_L3_MS_v4180/Preambles/	CallCfmGen	generate a CALL CONFIRMED for CALL	1349

GSM_L3_MS_v4180/Preambles/	Chmod	CONFIRMED message verifying To assign correct values to the test case variables TCV_ChMod and TCV_ChModb.	1354
GSM_L3_MS_v4180/Preambles/	Est_MO_Call	To establish a MO call in any cell.	1355
GSM_L3_MS_v4180/Preambles/	Est_MO_Call_init	To initiate a mobile originating call for the supported bearer capability. Only in HO cases.	1356
GSM_L3_MS_v4180/Preambles/	Est_MT_Call_FH	To establish a call with FH (in CELL A or B).	1357
GSM_L3_MS_v4180/Preambles/	Est_MT_CallNonFH	To establish a call with non hopping.	1358
GSM_L3_MS_v4180/Preambles/	IdleUpdated	This test step is called at the preamble of each test case.	1359
GSM_L3_MS_v4180/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'.	1366
GSM_L3_MS_v4180/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.	1367
GSM_L3_MS_v4180/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.	1368
GSM_L3_MS_v4180/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.	1368
GSM_L3_MS_v4180/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.	1369
GSM_L3_MS_v4180/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.	1369
GSM_L3_MS_v4180/Preambles/	PreEnterCCstateU1	To establish a mobile originating call and put the MS under test in the CC state U1.	1370
GSM_L3_MS_v4180/Preambles/	PreEnterCCstateU3	To establish a mobile originating call and put the MS under test in the CC state U3.	1370
GSM_L3_MS_v4180/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.	1371
GSM_L3_MS_v4180/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.	1371
GSM_L3_MS_v4180/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.	1371
GSM_L3_MS_v4180/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.	1372
GSM_L3_MS_v4180/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.	1372
GSM_L3_MS_v4180/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.	1372
GSM_L3_MS_v4180/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.	1373
GSM_L3_MS_v4180/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.	1373
GSM_L3_MS_v4180/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.	1373
GSM_L3_MS_v4180/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.	1374
GSM_L3_MS_v4180/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.	1374
GSM_L3_MS_v4180/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.	1374
GSM_L3_MS_v4180/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.	1375
GSM_L3_MS_v4180/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.	1375
GSM_L3_MS_v4180/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.	1376
GSM_L3_MS_v4180/Preambles/	PreEnterCCstateU9_31		1376
GSM_L3_MS_v4180/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.	1376
GSM_L3_MS_v4180/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.	1377
GSM_L3_MS_v4180/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.	1377
GSM_L3_MS_v4180/Preambles/	PreEnterCCstateU10	To establish a mobile terminating call for the supported bearer capability and put the MS under test	1378

		in the CC state U10. The supported bearer capability is specified in the input parameter setup.	
		Early assignment only. The SETUP message does not contain a SIGNAL information element.	
GSM_L3_MS_v4180/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 parameter setup.	1379
		Late assignment only. The SETUP message shall contain a SIGNAL information element.	
GSM_L3_MS_v4180/Preambles/	PreEnterCCstateU10_r01	To establish a mobile terminating call for the supported bearer capability and put the MS in the CC state U10.	1380
GSM_L3_MS_v4180/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.	1381
GSM_L3_MS_v4180/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.	1381
GSM_L3_MS_v4180/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.	1382
GSM_L3_MS_v4180/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.	1382
GSM_L3_MS_v4180/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.	1383
GSM_L3_MS_v4180/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.	1383
GSM_L3_MS_v4180/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.	1383
GSM_L3_MS_v4180/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.	1384
GSM_L3_MS_v4180/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.	1384
GSM_L3_MS_v4180/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.	1385
GSM_L3_MS_v4180/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.	1385
GSM_L3_MS_v4180/Preambles/	PreEstRRConn	To establish a RR connection on TSPX_SDCCH4SubDef	1386
GSM_L3_MS_v4180/Preambles/	PreEstRRC_MM	To establish a RR connection for MM testcases.	1386
GSM_L3_MS_v4180/Preambles/	PreModifySetup	To setup dual mode call and initiate MO incall modification.	1387
GSM_L3_MS_v4180/Preambles/	SpeechService	To select a speech service.	1387
GSM_L3_MS_v4180/Preambles/	StartCellA	To broadcast SYSTEM INFORMATION messages 2, 3, 4, 5 and 6 with default parameters in cell A.	1388
GSM_L3_MS_v4180/Preambles/	StartCellA_1	To start cell A with some parameters different from defaults.	1388
GSM_L3_MS_v4180/Preambles/	StartCellB	To broadcast SYSTEM INFORMATION messages 2, 3, 4, 5 and 6 with default parameters in cell B.	1389
GSM_L3_MS_v4180/Preambles/	StartCellB_1	To start cell B with default parameters.	1389
GSM_L3_MS_v4180/Preambles/	StartCellB_egsm	To broadcast SYSTEM INFORMATION messages 2, 3, 4, 5 and 6 with default parameters in cell B.	1390
GSM_L3_MS_v4180/Preambles/	StartCellB_ho	To broadcast SYSTEM INFORMATION messages 2, 3, 4, 5 and 6 with default parameters in cell B.	1391
GSM_L3_MS_v4180/Preambles/	StartCellC	To broadcast SYSTEM INFORMATION messages 2, 3, 4, 5 and 6 with default parameters in cell C.	1391
GSM_L3_MS_v4180/Preambles/	Start_2cells		1392
GSM_L3_MS_v4180/Preambles/	StartMultiCells_01	To broadcast SYSTEM INFORMATION messages 2, 3, 4, 5 and 6 in multiple cells for idle mode testing.	1393
GSM_L3_MS_v4180/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.	1396
GSM_L3_MS_v4180/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.	1398
GSM_L3_MS_v4180/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.	1400
GSM_L3_MS_v4180/Preambles/	TS61MO	MO SETUP message with right Bcap for TS61 service.	1402

GSM_L3_MS_v4180/Preambles/	TS62MO	MO SETUP message with right Bcap for TS62 service.	1404
GSM_L3_MS_v4180/Preambles/	TS61MT	MT SETUP message with right Bcap for TS61 service.	1406
GSM_L3_MS_v4180/Preambles/	TS62MT	MT SETUP message with right Bcap for TS62 service.	1408
Detailed Comments:			

Default index

Default Index			
Default Group Reference	Default Id	Description	Page Nr
GSM_L3_MS_v4180/	OtherEvents	To match unexpected events and sign final verdict for preambles.	1410
GSM_L3_MS_v4180/	OtherEventsFail	To match unexpected events and fail the test case.	1411
GSM_L3_MS_v4180/	OtherEventsFail_01	To match irrelevant CHANNEL REQUEST msg and return or match other unexpected events and fail the test case.	1412
GSM_L3_MS_v4180/	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.	1413
GSM_L3_MS_v4180/	OtherEvents_01	To match irrelevant messages and return	1414
GSM_L3_MS_v4180/	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.	1415
GSM_L3_MS_v4180/	RcvHdOvAcc	To match any HANDOVER ACCESS then return to calling tree.	1416
Detailed Comments:			

Declarations Part

Test suite type definitions

Simple type definitions

Simple Type Definitions		
Type Name	Type Definition	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(0..20)	
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
IDTYPE	BITSTRING('0001'B, '0010'B, '0100'B, '0011'B)	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 subclause 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	BITSTRING('0011'B, '0101'B, '0110'B, '1001'B, '1011'B)	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
SERVICES	IA5String("C_Telephony", "C_EmgCallSRV", "C_AltSpchG3", "C_AutoG3", "C_300cda", "C_1200cda", "C_120075cda", "C_2400cda", "C_4800cda", "C_2400cda", "C_4800cda", "C_PAD300", "C_PAD1200", "C_PAD120075", "C_PAD2400", "C_PAD4800", "C_PAD9600", "C_Pkt2400", "C_Pkt4800", "C_Pkt9600", "C_AltSpchData", "C_SpchData")	
SHOCT	BITSTRING('0000'B)	spare half octet for type 1 information element GSM 04.08, 10.5.1.8
SKI	BITSTRING('0000'B)	Skip indicator
SN	BITSTRING [3]	all possible slot number, GSM 04.08 10.5.2.5
SPB	BITSTRING('0'B)	spare bit
SP2B	BITSTRING('00'B)	2 spare bits
SP3B	BITSTRING('000'B)	3 spare bits
SP5B	BITSTRING('00000'B)	5 spare bits
SP6B	BITSTRING('000000'B)	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	BITSTRING[3]	Training sequence code, GSM 04.08 10.5.2.5
T1	BITSTRING [11]	
T1_	BITSTRING [5]	T1'
T2	BITSTRING [5]	
T3	BITSTRING [6]	
T3_	BITSTRING [3]	T3'
TI_V	BITSTRING('000'B, '001'B, '010'B, '011'B, '100'B, '101'B, '110'B)	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

Detailed Comments:

Structured Type definitions

Structured Type Definition		
Type Name:	ACST	
Comments:	Auxiliary states (CC information element) GSM 04.08, 10.5.4.4	
Element Name	Type Definition	Comments
iei	IEI_8	
iel	LENGTH	
extb	EXTB	
sp3b	SP3B	
has	BITSTRING [2]	
mpas	BITSTRING [2]	
Detailed Comments:		

Structured Type Definition		
Type Name:	BCAP	
Comments:	Bearer capability (CC information element) GSM 04.08, 10.5.4.5	
Element Name	Type Definition	Comments
iei	IEI_8	
iel	LENGTH	
extb3	EXTB	
rchr	BITSTRING [2]	
cs	BITSTRING [1]	
tm	BITSTRING [1]	
itc	BITSTRING [3]	
extb4	EXTB	
spb	SPB	
strc	BITSTRING [2]	
dplxm	BITSTRING [1]	
config	BITSTRING [1]	
nirr	BITSTRING [1]	
est	BITSTRING [1]	
extb5	EXTB	
accid	BITSTRING [2]	
ra	BITSTRING [2]	
sacp	BITSTRING [3]	
extb6	EXTB	
l1id	BITSTRING [2]	
uil1	BITSTRING [4]	
sb	BITSTRING [1]	
extb6a	EXTB	
nsb	BITSTRING [1]	
nb	BITSTRING [1]	
ndb	BITSTRING [1]	
ur	BITSTRING [4]	
extb6b	EXTB	
ir	BITSTRING [2]	
nictx	BITSTRING [1]	
nicrx	BITSTRING [1]	
pi	BITSTRING [3]	
extb6c	EXTB	
ce	BITSTRING [2]	
modemt	BITSTRING [5]	
extb7	EXTB	
l2id	BITSTRING [2]	
uil2	BITSTRING [5]	
Detailed Comments:		

Structured Type Definition		
Type Name:	BLOCKTYPE	
Comments:	Block type, GSM 04.12, 3.3.1	
Element Name	Type Definition	Comments
spare1	SPB	
lpd	BITSTRING[2]	
lb	BITSTRING[1]	
sequence_number	BITSTRING[4]	
Detailed Comments:		

Structured Type Definition		
Type Name:	CAU	
Comments:	Cause (CC information element) GSM 04.08, 10.5.4.11	
Element Name	Type Definition	Comments
iei	IEI_8	
iel	LENGTH	
extb3	EXTB	
cs	CS	
spb	SPB	
location	BITSTRING [4]	
extb3a	EXTB	
rec	BITSTRING [7]	
extb4	EXTB	
cau_class	BITSTRING [3]	
cau_va	BITSTRING [4]	
cau_di	OCTETSTRING [1..28]	
Detailed Comments: &COMMON_U06		

Structured Type Definition		
Type Name:	CCCAP	
Comments:	Call Control Capabilities GSM 04.08, 10.5.4.5a	
Element Name	Type Definition	Comments
iei	IEI_8	
iel	LENGTH	
spr	BITSTRING [7]	
dtmf	BITSTRING [1]	
Detailed Comments:		

Structured Type Definition		
Type Name:	CCD	
Comments:	Control channel description GSM 04.08, 10.5.2.11	
Element Name	Type Definition	Comments
spr1	BITSTRING [1]	
att	BITSTRING [1]	
babr	BITSTRING [3]	
ccch_con	BITSTRING [3]	
spr2	BITSTRING [5]	
bpm	BITSTRING [3]	
t3212	OCTETSTRING [1]	
Detailed Comments:		

Structured Type Definition		
Type Name:	CCHD	
Comments:	Cell channel description GSM 04.08, 10.5.2.1	
Element Name	Type Definition	Comments
iei	IEI_8	
rfl	OCTETSTRING [16]	
Detailed Comments:		

Structured Type Definition		
Type Name:	CD	
Comments:	Cell description GSM 04.08, 10.5.2.2	
Element Name	Type Definition	Comments
bcch_arfcn_h	BITSTRING [2]	
ncc	NCC	
bcc	BCC	
bcch_arfcn_l	BITSTRING [8]	
Detailed Comments: The info element is two octets long.		

Structured Type Definition		
Type Name:	CDPN	
Comments:	Called party BCD number (CC information element) GSM 04.08, 10.5.4.7	
Element Name	Type Definition	Comments
iei	IEI_8	
iel	LENGTH	
tonnpi	TON_NPI	
digits	BCDN	
Detailed Comments:		

Structured Type Definition		
Type Name:	CDPS	
Comments:	Called party subaddress (CC information element) GSM 04.08, 10.5.4.8	
Element Name	Type Definition	Comments
iei	IEI_8	
iel	LENGTH	
subad	SUBAD	
Detailed Comments:		

Structured Type Definition		
Type Name:	CE	
Comments:	connection element	
Element Name	Type Definition	Comments
TorBothTorBothNT	B_2	
NTorBothTorBothNT	B_2	
Detailed Comments:		

Structured Type Definition		
Type Name:	CGPN	
Comments:	Calling party BCD number (CC information element) GSM 04.08, 10.5.4.9	
Element Name	Type Definition	Comments
iei	IEI_8	
iel	LENGTH	
tonnpi	TON_NPI	
pisi	PI_SI	
digits	BCDN	
Detailed Comments:		

Structured Type Definition		
Type Name:	CGPS	
Comments:	Calling party subaddress (CC information element) GSM 04.08, 10.5.4.10	
Element Name	Type Definition	Comments
iei	IEI_8	
iel	LENGTH	
subad	SUBAD	
Detailed Comments:		

Structured Type Definition		
Type Name:	CHD	
Comments:	Channel description GSM 04.08, 10.5.2.5	
Element Name	Type Definition	Comments
iei	IEI_8	
cht_schn	BITSTRING [5]	
tn	BITSTRING [3]	
tsc	BITSTRING [3]	
hch	BITSTRING [1]	
maio	BITSTRING [6]	
hsn	BITSTRING [6]	
spr	BITSTRING [2]	
arfcn	BITSTRING [10]	
Detailed Comments:		

Structured Type Definition		
Type Name:	CHMOD	
Comments:	Channel mode, channel mode2 GSM 04.08, 10.5.2.6, 10.5.2.7	
Element Name	Type Definition	Comments
iei	IEI_8	
mode	B_8	
Detailed Comments:		

Structured Type Definition		
Type Name:	CHNEED	
Comments:	Channels needed GSM 04.08, 10.5.2.8	
Element Name	Type Definition	Comments
ch2	CHANNEL	
ch1	CHANNEL	
Detailed Comments:		

Structured Type Definition		
Type Name:	CNN	
Comments:	Connected number (CC information element) GSM 04.08, 10.5.4.13	
Element Name	Type Definition	Comments
iei	IEI_8	
iel	LENGTH	
tonnpi	TON_NPI	
pisi	PI_SI	
digits	BCDN	
Detailed Comments:		

Structured Type Definition		
Type Name:	CNS	
Comments:	Connected subaddress (CC information element) GSM 04.08, 10.5.4.14	
Element Name	Type Definition	Comments
iei	IEI_8	
iel	LENGTH	
subad	SUBAD	
Detailed Comments:		

Structured Type Definition		
Type Name:	CO	
Comments:	Cell options (BCCH / SACCH) GSM 04.08, 10.5.2.3	
Element Name	Type Definition	Comments
sprb	BITSTRING [1]	
pwrp	BITSTRING [1]	
dtx	BITSTRING [2]	
rt	BITSTRING [4]	
Detailed Comments:		

Structured Type Definition		
Type Name:	Component_T	
Comments:	Component for sending (downlink) GSM 04.80, 3.6	
Element Name	Type Definition	Comments
comp_part1	OCTETSTRING	
invokeld	OCTETSTRING [1]	
comp_part2	OCTETSTRING	
comp_part3	OCTETSTRING	
comp_part4	OCTETSTRING	
comp_part5	OCTETSTRING	
comp_part6	OCTETSTRING	
comp_part7	OCTETSTRING	
comp_part8	OCTETSTRING	
comp_part9	OCTETSTRING	
comp_part10	OCTETSTRING	
comp_part11	OCTETSTRING	
comp_part12	OCTETSTRING	
Detailed Comments: This component is defined for the use in the downlink (from the test system to the IUT) direction.		

Structured Type Definition		
Type Name:	CPDATA	
Comments:	CP-User data element GSM 04.11, 8.1.4.1	
Element Name	Type Definition	Comments
iei	IEI_8	
iel	LENGTH	
rpack	RPACK	
rpdata	RPDATA	
rperr	RPERR	
rpsmma	RPSMMA	
Detailed Comments:	One of the 4 types of rpdu is contained in the CPDATA.	

Structured Type Definition		
Type Name:	CPHMS	
Comments:	Cipher mode setting GSM 04.08, 10.5.2.9	
Element Name	Type Definition	Comments
iei	IEI_4	
algid	BITSTRING [3]	
sc	BITSTRING [1]	
Detailed Comments:		

Structured Type Definition		
Type Name:	CPHKS	
Comments:	Ciphering key sequence number GSM 04.08, 10.5.1.2	
Element Name	Type Definition	Comments
sprb	BITSTRING [1]	
ks	BITSTRING [3]	
Detailed Comments:		

Structured Type Definition		
Type Name:	CPH_RES	
Comments:	Cipher response GSM 04.08, 10.5.2.10	
Element Name	Type Definition	Comments
iei	IEI_4	
sprb	BITSTRING [3]	
cr	BITSTRING [1]	
Detailed Comments:		

Structured Type Definition		
Type Name:	CSP	
Comments:	Cell selection parameters GSM 04.08, 10.5.2.4	
Element Name	Type Definition	Comments
crh	BITSTRING [3]	
mtmc	BITSTRING [5]	
acs	BITSTRING [1]	
neci	BITSTRING [1]	
ram	BITSTRING [6]	
Detailed Comments:		

Structured Type Definition		
Type Name:	CST	
Comments:	Call status (CC information element) GSM 04.08, 10.5.4.6	
Element Name	Type Definition	Comments
cs	CS	
csv	BITSTRING [6]	
Detailed Comments:		

Structured Type Definition		
Type Name:	FIE	
Comments:	Facility information element GSM 04.80, 3.6	
Element Name	Type Definition	Comments
iei	IEI_8	
iel	LENGTH	
components_1	Components	
components_t	Component_T	
Detailed Comments: When sending normally only one component is sent, but when receiving any number of components can be received even though normally we are only interested in one component during the testing.		

Structured Type Definition		
Type Name:	FN	
Comments:	The time in reference to the frame numbering corresponding to the absolute frame number modulo 42432.	
Element Name	Type Definition	Comments
t1_	T1_	
t3	T3	
t2	T2	
Detailed Comments: In STRT and RQR		

Structured Type Definition		
Type Name:	FRQCHS	
Comments:	Frequency channel sequence GSM 04.08, 10.5.2.12	
Element Name	Type Definition	Comments
iei	IEI_8	
larfcn	OCTETSTRING [1]	
incs	OCTETSTRING [8]	
Detailed Comments:		

Structured Type Definition		
Type Name:	FRQL	
Comments:	Frequency list, frequency short list GSM 04.08, 10.5.2.5, 10.5.2.6	
Element Name	Type Definition	Comments
iei	IEI_8	
iel	LENGTH	
fl	OCTETSTRING [2..130]	
Detailed Comments: frequency short list has a fixed length of 10 octets and does not contain the length indicator.		

Structured Type Definition		
Type Name:	FRQPARA	
Comments:	Parameters for Description of basic physical channel in frequency domain.	
Element Name	Type Definition	Comments
hch	BITSTRING[1]	
maio	BITSTRING [6]	
hsn	BITSTRING [6]	
spr	BITSTRING [2]	
arfcn	BITSTRING [10]	
maclength	LENGTH	
mac_8n	BITSTRING [8]	
mac_7n	BITSTRING [8]	
mac_6n	BITSTRING [8]	
mac_5n	BITSTRING [8]	
mac_4n	BITSTRING [8]	
mac_3n	BITSTRING [8]	
mac_2n	BITSTRING [8]	
mac_1n	BITSTRING [8]	
flst	FRQL	
Detailed Comments:		

Structured Type Definition		
Type Name:	HLCMP	
Comments:	High layer compatibility (CC information element) GSM 04.08, 10.5.4.16, ITU Q.931	
Element Name	Type Definition	Comments
iei	IEI_8	
iel	LENGTH	
extb3	EXTB	
cs	BITSTRING [2]	
in	BITSTRING [3]	
pmpp	BITSTRING [2]	
extb4	EXTB	
hlci	BITSTRING [7]	
extb4a	EXTB	
ehlci	BITSTRING [7]	
Detailed Comments:		

Structured Type Definition		
Type Name:	IARESTOCT	
Comments:		
Element Name	Type Definition	Comments
iei	IEI_8	
iaroct1	OCTETSTRING[1..11]	
iaroct2	IARESTOCT2	
Detailed Comments:		

Structured Type Definition		
Type Name: IARESTOCT2		
Comments:		
Element Name	Type Definition	Comments
p	BITSTRING[2]	
frqparalen	BITSTRING[6]	
spbt1	BITSTRING[2]	
maio	BITSTRING[6]	
ma	OCTETSTRING[0..8]	
spbt2	OCTETSTRING[0..8]	
Detailed Comments:		

Structured Type Definition		
Type Name: KPF (keypad facility)		
Comments: keypad facility GSM 04.08 clause 10.5.4.17		
Element Name	Type Definition	Comments
iei	IEI_8	
extb	EXTB	
kpf_info	IA5String [1]	
Detailed Comments: Is extb needed?		

Structured Type Definition		
Type Name: L1HD		
Comments: Layer 1 Header		
Element Name	Type Definition	Comments
spr1	BITSTRING[3]	
mshwrlvl	BITSTRING[5]	
spr2	BITSTRING[1]	
ta	BITSTRING[7]	
Detailed Comments:		

Structured Type Definition		
Type Name: LAI		
Comments: Location area identification GSM 04.08, 10.5.1.3		
Element Name	Type Definition	Comments
iei	IEI_8	
mcc	OCTETSTRING [2]	
mnc	OCTETSTRING [1]	
lac	OCTETSTRING [2]	
Detailed Comments:		

Structured Type Definition		
Type Name:		LLCMP
Comments:		Low layer compatibility (CC information element) GSM 04.08, 10.5.4.18
Element Name	Type Definition	Comments
iei	IEI_8	
iel	LENGTH	
extb3	EXTB	
cs	BITSTRING [2]	
itc	BITSTRING [5]	
extb3a	EXTB	
negind	BITSTRING[1]	
spb3a	SP6B	
extb4	EXTB	
tm	BITSTRING [2]	
itr	BITSTRING [5]	
extb4a	EXTB	
strc	BITSTRING [3]	
config	BITSTRING [2]	
est	BITSTRING [2]	
extb4b	EXTB	
sym	BITSTRING [2]	
itrdo	BITSTRING [5]	
extb5	EXTB	
l1id	BITSTRING [2]	
uil1	BITSTRING [5]	
extb5a	EXTB	
sb	BITSTRING [1]	
neg	BITSTRING [1]	
ur	BITSTRING [5]	
extb5b1	EXTB	
ir	BITSTRING [2]	
nictx	BITSTRING [1]	
nicrx	BITSTRING [1]	
fctx	BITSTRING [1]	
fcrx	BITSTRING [1]	
spb5b1	SPB	
extb5b2	EXTB	
hdrb	BITSTRING[1]	
mfs	BITSTRING[1]	
mode	BITSTRING[1]	
llineg	BITSTRING[1]	
ass	BITSTRING[1]	
ibob	BITSTRING[1]	
spb5b2	SPB	
extb5c	EXTB	
nsb	BITSTRING [2]	
ndb	BITSTRING [2]	
pi	BITSTRING [3]	
extb5d	EXTB	
dplxm	BITSTRING [1]	
modemt	BITSTRING [6]	
extb6	EXTB	
l2id	BITSTRING [2]	
uil2	BITSTRING [5]	
extb6a	EXTB	
ol2pi	BITSTRING[7]	
extb7	EXTB	
l3id	BITSTRING [2]	
uil3	BITSTRING [5]	
extb7a	EXTB	
ol3pi	BITSTRING[7]	
Detailed Comments:		

Structured Type Definition		
Type Name: LUT		
Comments: Location updating type GSM 04.08, 10.5.3.5		
Element Name	Type Definition	Comments
foreq	BITSTRING [1]	
sprb	BITSTRING [1]	
lut	BITSTRING [2]	
Detailed Comments:		

Structured Type Definition		
Type Name: MA		
Comments: Mobile allocation GSM 04.08, 10.5.2.21		
Element Name	Type Definition	Comments
iei	IEI_8	
iel	LENGTH	
mac_8n	BITSTRING [8]	
mac_7n	BITSTRING [8]	
mac_6n	BITSTRING [8]	
mac_5n	BITSTRING [8]	
mac_4n	BITSTRING [8]	
mac_3n	BITSTRING [8]	
mac_2n	BITSTRING [8]	
mac_1n	BITSTRING [8]	
Detailed Comments:		

Structured Type Definition		
Type Name: MI		
Comments: Mobile identity GSM 04.08, 10.5.1.4		
Element Name	Type Definition	Comments
iei	IEI_8	
iel	LENGTH	
idigit_1	BITSTRING [4]	
oei	BITSTRING [1]	
toi	BITSTRING [3]	
idigits_other	OCTETSTRING [0..7]	
Detailed Comments:		

Structured Type Definition		
Type Name: MODEMTYPE		
Comments:		
Element Name	Type Definition	Comments
V22bisOrV26ter	B_5	
Detailed Comments:		

Structured Type Definition		
Type Name:	MSCLM1	
Comments:	mobile station classmark 1 GSM 04.08, 10.5.1.5	
Element Name	Type Definition	Comments
spr1	BITSTRING [1]	
rl	BITSTRING [2]	
spr2	BITSTRING [1]	
a5_1	BITSTRING [1]	
rfpc	BITSTRING [3]	
Detailed Comments:	2 octets long	

Structured Type Definition		
Type Name:	MSCLM2	
Comments:	mobile station classmark 2 GSM 04.08, 10.5.1.6	
Element Name	Type Definition	Comments
iel	LENGTH	
spr1	BITSTRING [1]	
rl	BITSTRING [2]	
spr2	BITSTRING [1]	
a5_1	BITSTRING [1]	
rfpc	BITSTRING [3]	
spr3	BITSTRING [1]	
psc	BITSTRING [1]	
sssi	BITSTRING [2]	
smc	BITSTRING [1]	
spr4	BITSTRING [2]	
fc	BITSTRING [1]	
cm3	BITSTRING [1]	
spr5	BITSTRING [5]	
a5_3	BITSTRING [1]	
a5_2	BITSTRING [1]	
Detailed Comments:	4 octets long	

Structured Type Definition		
Type Name:	MSCLM3	
Comments:	Mobile station classmark 3 GSM 04.08, 10.5.1.7	
Element Name	Type Definition	Comments
iei	IEI_8	
iel	LENGTH	
spr1	BITSTRING [4]	
a5_7	BITSTRING [1]	
a5_6	BITSTRING [1]	
a5_5	BITSTRING [1]	
a5_4	BITSTRING [1]	
spr2	OCTETSTRING [11]	
Detailed Comments:	The info element has 14 octets	

Structured Type Definition		
Type Name: MSRR		
Comments: measurement results GSM 04.08, 10.5.2.20		
Element Name	Type Definition	Comments
ba_used	BITSTRING [1]	
dtx_used	BITSTRING [1]	
rxlev_fsc	RXLEV	
spr1	BITSTRING [1]	
meas_valid	BITSTRING [1]	
rxlev_ssc	RXLEV	
spr2	BITSTRING [1]	
rxqual_fsc	BITSTRING [3]	
rxqual_ssc	BITSTRING [3]	
no_nc	BITSTRING [3]	
rxlev_nc1	RXLEV	
bcchfrq_nc1	BCCHFRQ	
bsic_nc1	BSIC	
rxlev_nc2	RXLEV	
bcchfrq_nc2	BCCHFRQ	
bsic_nc2	BSIC	
rxlev_nc3	RXLEV	
bcchfrq_nc3	BCCHFRQ	
bsic_nc3	BSIC	
rxlev_nc4	RXLEV	
bcchfrq_nc4	BCCHFRQ	
bsic_nc4	BSIC	
rxlev_nc5	RXLEV	
bcchfrq_nc5	BCCHFRQ	
bsic_nc5	BSIC	
rxlev_nc6	RXLEV	
bcchfrq_nc6	BCCHFRQ	
bsic_nc6	BSIC	
Detailed Comments: The info element has a fixed length of 16 octets.		

Structured Type Definition		
Type Name: MTDIF		
Comments: Mobile time difference GSM 04.08, 10.5.1.21a		
Element Name	Type Definition	Comments
iei	IEI_8	
iel	LENGTH	
value	OCTETSTRING [3]	
Detailed Comments:		

Structured Type Definition		
Type Name: NCD		
Comments: Neighbour cells description GSM 04.08, 10.5.2.22		
Element Name	Type Definition	Comments
rfi2	BITSTRING [2]	
extind	BITSTRING [1]	
baind	BITSTRING [1]	
rfi4	BITSTRING [4]	
rfl	OCTETSTRING [15]	
Detailed Comments:		

Structured Type Definition		
Type Name:	PCMD	
Comments:	Power command and access type GSM 04.08, 10.5.2.28, 10.5.2.28a	
Element Name	Type Definition	Comments
sprb	BITSTRING [3]	
pl	BITSTRING [5]	
Detailed Comments:		

Structured Type Definition		
Type Name:	PI	
Comments:	Progress indicator GSM 04.08, 10.5.4.21	
Element Name	Type Definition	Comments
iei	IEI_8	
iel	LENGTH	
extb3	EXTB	
cs	BITSTRING [2]	
spb	SPB	
loc	BITSTRING [4]	
extb4	EXTB	
prd	BITSTRING [7]	
Detailed Comments: total 4 octets		

Structured Type Definition		
Type Name:	PI_SI	
Comments:	Presentation indicator & screening indicator GSM 04.08, 10.5.4.9, 10.5.4.13	
Element Name	Type Definition	Comments
extb	EXTB	
pi	BITSTRING [2]	
sp3b	SP3B	
si	BITSTRING [2]	
Detailed Comments:		

Structured Type Definition		
Type Name:	PM	
Comments:	Page mode GSM 04.08, 10.5.2.26	
Element Name	Type Definition	Comments
sprb	B_2	
pgm	B_2	
Detailed Comments:		

Structured Type Definition		
Type Name: RACHCP		
Comments: Rach control parameters GSM 04.08, 10.5.2.29		
Element Name	Type Definition	Comments
maxrtx	BITSTRING [2]	
txint	BITSTRING [4]	
cba	BITSTRING [1]	
re	BITSTRING [1]	
acc_2	BITSTRING [5]	
ec	BITSTRING [1]	
acc_1	BITSTRING [10]	
Detailed Comments: The info element has a fixed length of 3 octets.		

Structured Type Definition		
Type Name: RPACK		
Comments: SMS RP ACKNOWLEDGEMENT ms <-> n GSM 04.11, 7.3.3		
Element Name	Type Definition	Comments
sprb	SP5B	
rpmti	MTI	
rpmr	MR	
Detailed Comments:		

Structured Type Definition		
Type Name: RPCAU		
Comments: RP user data element GSM 04.11, 8.2.5.4		
Element Name	Type Definition	Comments
iei	IEI_8	
iel	LENGTH	
extb2	EXTB	
rpcau_class	BITSTRING [3]	
rpcau_va	BITSTRING [4]	
rpcau_di	OCTETSTRING [1]	
Detailed Comments:		

Structured Type Definition		
Type Name: RPDATA		
Comments: SMS RP DATA ms <-> n GSM 04.11, 7.3.1		
Element Name	Type Definition	Comments
sprb	SP5B	
rpmti	MTI	
rpmr	MR	
rpOaddr	CDPN	
rpDaddr	CDPN	
rpusrdat	RPUSRDAT	
Detailed Comments:		

Structured Type Definition		
Type Name:	RPERR	
Comments:	SMS RP ERROR ms <-> n GSM 04.11, 7.3.4	
Element Name	Type Definition	Comments
sprb	SP5B	
rpmti	MTI	
rpmr	MR	
rpcau	RPCAU	
rpusrdat	RPUSRDAT	
Detailed Comments:		

Structured Type Definition		
Type Name:	RPSMMA	
Comments:	SMS RP SMMA ms -> n GSM 04.11, 7.3.2	
Element Name	Type Definition	Comments
sprb	SP5B	
rpmti	MTI	
rpmr	MR	
Detailed Comments: SM memory available		

Structured Type Definition		
Type Name:	RPUSRDAT	
Comments:	RP user data element GSM 04.11, 8.2.5.3, GSM 03.40, 9.2.2	
Element Name	Type Definition	Comments
iei	IEI_8	
iel	LENGTH	
tpdeliver	SMDLVR	
tpsubmit	SMSBMT	
tpstatus_rpt	SMST_RPT	
tpcommand	SMCMD	
tpdlvr_sbmt_rpt	SMDLVR_RPT	
Detailed Comments: One of the six tpdu is contained in the RPUSRDATA. Since the structures of the messages SMS-Deliver-Report and SMS-Submit-Report are identical, they have been combined to tpdlvr_sbmt_rpt and therefore only five tp message types exist in this type definition.		

Structured Type Definition		
Type Name:	RQR	
Comments:	Request reference GSM 04.08, 10.5.2.30	
Element Name	Type Definition	Comments
ra	BITSTRING [8]	
fn	FN	
Detailed Comments:		

Structured Type Definition		
Type Name:	SIGNAL	
Comments:	Signal (CC information element) GSM 04.08, 10.5.4.23	
Element Name	Type Definition	Comments
iei	IEI_8	
sigv	BITSTRING [8]	
Detailed Comments:		

Structured Type Definition		
Type Name:	SERIAL_NUMBER	
Comments:	Serial number for SMSCB, GSM 3.41, 9.3.2	
Element Name	Type Definition	Comments
gs	BITSTRING[2]	
message_code	BITSTRING[10]	
update_number	BITSTRING[4]	
Detailed Comments:		

Structured Type Definition		
Type Name:	SMCMD	
Comments:	SMS COMMAND, ms - > n. GSM 03.40, 9.2.2.4	
Element Name	Type Definition	Comments
sprb1	SP2B	
srr	BITSTRING[1]	
sprb2	SP3B	
mti	BITSTRING [2]	
mr	MR	
pid	TPPID	
ct	OCTETSTRING [1]	
mn	OCTETSTRING [1]	
da	TPA	
cdl	LENGTH	
cd	TPCD	
Detailed Comments:		

Structured Type Definition		
Type Name:	SMDLVR	
Comments:	SMS DELIVER, n - > ms. GSM 03.40, 9.2.2.1	
Element Name	Type Definition	Comments
rp	BITSTRING [1]	
udhi	BITSTRING [1]	
sri	BITSTRING [1]	
sprb2	SP2B	
mms	BITSTRING [1]	
mti	BITSTRING [2]	
oa	TPA	
pid	TPPID	
dcs	TPDCS	
scts	TPSCTS	
udl	LENGTH	
ud	TPUD	
Detailed Comments:		

Structured Type Definition		
Type Name:	SMDLVR_RPT	
Comments:	SMS DELIVER or SUBMIT REPORT contained in the RP ERROR PDU, n <-> ms. GSM 03.40, 9.2.2.1a, 9.2.2.2a.	
Element Name	Type Definition	Comments
sprb1	SP6B	
mti	BITSTRING [2]	
fcs	FCS	
Detailed Comments:		

Structured Type Definition		
Type Name:	SMSBMT	
Comments:	SMS SUBMIT, ms -> n. GSM 03.40, 9.2.2.2	
Element Name	Type Definition	Comments
rp	BITSTRING [1]	
udhi	BITSTRING [1]	
srr	BITSTRING [1]	
vpf	BITSTRING [2]	
rd	BITSTRING [1]	
mti	BITSTRING [2]	
mr	MR	
da	TPA	
pid	TPPID	
dcs	TPDCS	
vp1	OCTETSTRING [1]	
vp7	TPSCTS	
udl	LENGTH	
ud	TPUD	
Detailed Comments:		

Structured Type Definition		
Type Name:	SMSCBpack	
Comments:	SMS cell broadcasting packing data n -> ms. GSM 03.38, 6.1.2.2.1	
Element Name	Type Definition	Comments
block1	OCTETSTRING [16]	
block2	OCTETSTRING [22]	
block3	OCTETSTRING [22]	
block4	OCTETSTRING [22]	
Detailed Comments:		

Structured Type Definition		
Type Name:	SMST_RPT	
Comments:	SMS STATUS REPORT, n -> ms. GSM 03.40, 9.2.2.3	
Element Name	Type Definition	Comments
sprb1	SP5B	
mms	BITSTRING [1]	
mti	BITSTRING [2]	
mr	MR	
ra	TPA	
scts	TPSCTS	
dt	TPSCTS	
st	TPST	
Detailed Comments:		

Structured Type Definition		
Type Name:	SSVI	
Comments:	SS version indicator GSM 04.08, 10.5.4.24	
Element Name	Type Definition	Comments
iei	IEI_8	
iel	LENGTH	
ssv	OCTETSTRING [1]	
Detailed Comments:		

Structured Type Definition		
Type Name:	STRT	
Comments:	Starting time GSM 04.08, 10.5.2.38	
Element Name	Type Definition	Comments
iei	IEI_8	
fn	FN	
Detailed Comments:		

Structured Type Definition		
Type Name:	SUBAD	
Comments:	Subaddress GSM 04.08, 10.5.4.8, 10.5.4.10, 10.5.4.14	
Element Name	Type Definition	Comments
extb	EXTB	
tos	BITSTRING [3]	
oei	BITSTRING [1]	
sp3b	SP3B	
si	OCTETSTRING [2..23]	
Detailed Comments:		

Structured Type Definition		
Type Name:	SYNCHI	
Comments:	Synchronization indication GSM 04.08, 10.5.2.39	
Element Name	Type Definition	Comments
iei	IEI_4	
nci	B_1	
rot	B_1	
si	B_2	
Detailed Comments:		

Structured Type Definition		
Type Name:	TA	
Comments:	Timing advance GSM 04.08, 10.5.2.40	
Element Name	Type Definition	Comments
iei	IEI_8	
sprb	BITSTRING [2]	
value	BITSTRING [6]	
Detailed Comments:		

Structured Type Definition		
Type Name:	TDIF	
Comments:	Time difference GSM 04.08, 10.5.1.41	
Element Name	Type Definition	Comments
iei	IEI_8	
iel	LENGTH	
value	OCTETSTRING [1]	
Detailed Comments:		

Structured Type Definition		
Type Name:	TI	
Comments:	Transaction identifier GSM 04.08, 10.1	
Element Name	Type Definition	Comments
ti_f	BITSTRING [1]	
ti_v	TI_V	
Detailed Comments:		

Structured Type Definition		
Type Name:	TMSI	
Comments:	Temporary GSM 04.08, 10.5.2.42	
Element Name	Type Definition	Comments
iei	IEI_8	
tmsi_val	OCTETSTRING [4]	
Detailed Comments:		

Structured Type Definition		
Type Name:	TON_NPI	
Comments:	Type of number and numbering plan GSM 04.08, 10.5.4.7, 10.5.4.9, 10.5.4.13, GSM 03.40, 9.1.2.5	
Element Name	Type Definition	Comments
extb	EXTB	
ton	BITSTRING [3]	
npi	BITSTRING [4]	
Detailed Comments:		

Structured Type Definition		
Type Name:	TPA	
Comments:	TP address GSM 03.40, 9.1.2.5	
Element Name	Type Definition	Comments
iel	LENGTH	
tonnpi	TON_NPI	
digits	BCDN	
Detailed Comments:		

Structured Type Definition		
Type Name:	TPDCS	
Comments:	SMS data coding scheme GSM 03.38, 4, 5	
Element Name	Type Definition	Comments
cg	BITSTRING [4]	
code	BITSTRING [4]	
Detailed Comments: Identifying the coding scheme within the TP user data.		

Structured Type Definition		
Type Name:	TPPID	
Comments:	TP protocol identifier GSM 03.40, 9.2.3.9	
Element Name	Type Definition	Comments
type	BITSTRING [2]	
value	BITSTRING [6]	
Detailed Comments:		

Structured Type Definition		
Type Name:	TPST	
Comments:	TP status GSM 03.40, 9.2.3.15	
Element Name	Type Definition	Comments
sprb1	SPB	
value	BITSTRING [7]	
Detailed Comments:		

Structured Type Definition		
Type Name:	UNKWN	
Comments:	unknown IE	
Element Name	Type Definition	Comments
iei	IEI_8	
iel	LENGTH	
contents	OCTETSTRING	
Detailed Comments:		

Structured Type Definition		
Type Name:	UU	
Comments:	User-user GSM 04.08, 10.5.4.25	
Element Name	Type Definition	Comments
iei	IEI_8	
iel	LENGTH	
uupd	BITSTRING [8]	
uui	OCTETSTRING [1..128]	
Detailed Comments:		
In SETUP, ALERTING, CONNECT, DISCONNECT, RELEASE and RELEASE COMPLETE messages the uui length is of 0 - 32 bytes.		
In USER INFORMATION messages the uui length is of 1 - 128.		

ASN1 type definitions

ASN.1 Type Definition	
Type Name:	Component
Comments:	ASN1_Encoding: BER
Type Definition	
<pre> 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, splitMPYComponents SplitMPY_Components, retrieveMPYComponents RetrieveMPY_Components, holdMPYComponents HoldMPY_Components, buildMPYComponents BuildMPY_Components, forwardChargeAdviceComponents ForwardChargeAdvice_Components, generalComponents General_Components } </pre>	
Detailed Comments:	Plural components as each type represents invoke, return result, return error etc.

ASN.1 Type Definition	
Type Name:	Components
Comments:	GSM 04.80, 3.6
Type Definition	
SET OF Component	
Detailed Comments:	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	
Type Name:	ActivateSS_Components
Comments:	GSM 09.02, 14.5, 14.6.4, 14.6.6, 14.7.4, 14.7.7
Type Definition	
<pre> CHOICE { activateSS_InvokeComp [1] IMPLICIT SEQUENCE { invokeID InvokeIDType, localValue INTEGER (12), ss_ForBS SS_ForBS_Code }, activateSS_ReturnResultComp [2] IMPLICIT SEQUENCE { invokeID InvokeIDType, result SEQUENCE { localValue INTEGER (12), ss_Info SS_Info } }, activateSS_ReturnErrorComp CHOICE { errorCodes [3] IMPLICIT SEQUENCE { invokeID InvokeIDType, errorCode ErrorLocalValues (bearerServiceNotProvisioned teleserviceNotProvisioned illegalSS_Operation dataMissing unexpectedDataValue negativePW_Check numberOfPW_AttemptsViolation) }, callBarredErr [3] IMPLICIT SEQUENCE { invokeID InvokeIDType, errorCode ErrorLocalValues (callBarred), parameter CallBarringCause }, ss_ErrorStatusErr [3] IMPLICIT SEQUENCE { invokeID InvokeIDType, errorCode ErrorLocalValues (ss_ErrorStatus), parameter SS_Status }, ss_SubscriptionViolationeErr [3] IMPLICIT SEQUENCE { invokeID InvokeIDType, errorCode ErrorLocalValues (ss_SubscriptionViolation), parameter SS_SubscriptionOption }, ss_IncompatibilityErr [3] IMPLICIT SEQUENCE { invokeID InvokeIDType, errorCode ErrorLocalValues (ss_Incompatibility), parameter SS_IncompatibilityCause }, systemFailureErr [3] IMPLICIT SEQUENCE { invokeID InvokeIDType, errorCode ErrorLocalValues (systemFailure), parameter NetworkResource} }, activateSS_RejectComp [4] IMPLICIT RejectComponent } </pre>	
Detailed Comments:	Timer m (15 - 30 s)

ASN.1 Type Definition	
Type Name:	BuildMPTY_Components
Comments:	GSM 04.80, 4.2
Type Definition	
<pre> 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 } </pre>	
Detailed Comments:	Timer T_buildMPTY (5 - 30 s)

ASN.1 Type Definition	
Type Name:	DeactivateSS_Components
Comments:	GSM 09.02, 14.5, 14.6.4, 14.6.6, 14.7.4, 14.7.7
Type Definition	
<pre> CHOICE { deactivateSS_InvokeComp [1] IMPLICIT SEQUENCE { invokeID InvokeIDType, localValue INTEGER (13), ss_ForBS SS_ForBS_Code }, deactivateSS_ReturnResultComp [2] IMPLICIT SEQUENCE { invokeID InvokeIDType, result SEQUENCE { localValue INTEGER (13), ss_Info SS_Info } }, deactivateSS_ReturnErrorComp CHOICE { errorCodes [3] IMPLICIT SEQUENCE { invokeID InvokeIDType, errorCode ErrorLocalValues (bearerServiceNotProvisioned teleserviceNotProvisioned illegalSS_Operation dataMissing unexpectedDataValue negativePW_Check numberOfPW_AttemptsViolation) }, callBarredErr [3] IMPLICIT SEQUENCE { invokeID InvokeIDType, errorCode ErrorLocalValues (callBarred), parameter CallBarringCause }, ss_ErrorStatusErr [3] IMPLICIT SEQUENCE { invokeID InvokeIDType, errorCode ErrorLocalValues (ss_ErrorStatus), parameter SS_Status }, ss_SubscriptionViolationeErr [3] IMPLICIT SEQUENCE { invokeID InvokeIDType, errorCode ErrorLocalValues (ss_SubscriptionViolation), parameter SS_SubscriptionOption }, systemFailureErr [3] IMPLICIT SEQUENCE { invokeID InvokeIDType, errorCode ErrorLocalValues (systemFailure), parameter NetworkResource} }, deactivateSS_RejectComp [4] IMPLICIT RejectComponent } </pre>	
Detailed Comments:	Timer m

ASN.1 Type Definition	
Type Name:	EraseSS_Components
Comments:	GSM 09.02, 14.5, 14.6.4, 14.6.6, 14.7.4, 14.7.7
Type Definition	
<pre> CHOICE { eraseSS_InvokeComp [1] IMPLICIT SEQUENCE { invokeID InvokeIDType, localValue INTEGER (11), ss_ForBS SS_ForBS_Code }, result ss_Info INTEGER (11), SS_Info } , eraseSS_ReturnResultComp [2] IMPLICIT SEQUENCE { invokeID InvokeIDType, result SEQUENCE { localValue INTEGER (11), ss_Info SS_Info } , errorCodes CHOICE { eraseSS_ReturnErrorComp [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 } </pre>	
Detailed Comments:	Timer m

ASN.1 Type Definition	
Type Name:	ForwardChargeAdvice_Components
Comments:	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>	
Detailed Comments:	Timer T_aoc = 1 - 40 s

ASN.1 Type Definition	
Type Name:	ForwardCheckSSIndication_Components
Comments:	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>	
Detailed Comments:	

ASN.1 Type Definition	
Type Name:	ForwardCUGInfo_Components
Comments:	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>	
Detailed Comments:	

ASN.1 Type Definition	
Type Name:	General_Components
Comments:	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>	
Detailed Comments:	

ASN.1 Type Definition	
Type Name:	GetPassword_Components
Comments:	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>	
Detailed Comments:	Timer m

ASN.1 Type Definition	
Type Name:	HoldMPTY_Components
Comments:	GSM 04.80, 4.2
Type Definition	
<pre> CHOICE { holdMPTY_InvokeComp [1] IMPLICIT SEQUENCE { invokeID InvokeIDType, localValue INTEGER (123) }, result 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>	
Detailed Comments:	Timer T_holdMPTY (5 - 30 s)

ASN.1 Type Definition	
Type Name:	InterrogateSS_Components
Comments:	GSM 09.02, 14.5, 14.6.4, 14.6.6, 14.7.4, 14.7.7
Type Definition	
<pre> 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 forwardingFeatureList [3] IMPLICIT cli_RestrictionInfo [4] IMPLICIT SEQUENCE { 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 } </pre>	
Detailed Comments:	Timer m

ASN.1 Type Definition	
Type Name:	NotifySS_Components
Comments:	GSM 04.80, 4.2
Type Definition	
CHOICE { notifySS_InviteComp [1] IMPLICIT SEQUENCE { invokeID InvokeIDType, localValue INTEGER (16), notifySS_Arg SEQUENCE { ss_Code [1] IMPLICIT SS_Code ss_Status [4] IMPLICIT SS_Status ss_Notification [5] IMPLICIT OCTET STRING callIsWaiting_Indicator [14] IMPLICIT NULL callOnHold_Indicator [15] IMPLICIT ENUMERATED { callRetrieved (0), callOnHold (1) } OPTIONAL, mpty_Indicator [16] IMPLICIT NULL cug_Index [17] IMPLICIT CUG_Index clirSuppressionRejected [18] IMPLICIT NULL } , notifySS_RejectComp [4] IMPLICIT RejectComponent }	
Detailed Comments:	

ASN.1 Type Definition	
Type Name:	ProcessUnstructuredSSData_Components
Comments:	GSM 09.02, 14.5, 14.6.4, 14.6.6, 14.7.4, 14.7.7
Type Definition	
CHOICE { processUnstructuredSSData_InviteComp [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 { errorCode ErrorLocalValues (unexpectedDataValue) }, systemFailureErr [3] IMPLICIT SEQUENCE { invokeID InvokeIDType, errorCode ErrorLocalValues (systemFailure), parameter NetworkResource} } , processUnstructuredSSData_RejectComp [4] IMPLICIT RejectComponent }	
Detailed Comments: Timer m	

ASN.1 Type Definition	
Type Name:	ProcessUnstructuredSSRequest_Components
Comments:	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>	
Detailed Comments:	Timer m

ASN.1 Type Definition	
Type Name:	RegisterPassword_Components
Comments:	GSM 09.02, 14.5, 14.6.4, 14.6.6, 14.7.4, 14.7.7
Type Definition	
<pre> CHOICE { registerPassword_InvokeComp [1] IMPLICIT SEQUENCE { invokeID InvokeIDType, localValue INTEGER (17), ss_Code SS_Code }, registerPassword_ReturnResultComp [2] IMPLICIT SEQUENCE { invokeID InvokeIDType, result SEQUENCE { localValue INTEGER (17), newPassword Password } }, registerPassword_ReturnErrorComp CHOICE { errorCodes [3] IMPLICIT SEQUENCE { invokeID InvokeIDType, errorCode ErrorLocalValues (dataMissing unexpectedDataValue negativePW_Check numberOfPW_AttemptsViolation) }, callBarredErr [3] IMPLICIT SEQUENCE { invokeID InvokeIDType, errorCode ErrorLocalValues (callBarred), parameter CallBarringCause }, ss_SubscriptionViolationeErr [3] IMPLICIT SEQUENCE { invokeID InvokeIDType, errorCode ErrorLocalValues (ss_SubscriptionViolation), parameter SS_SubscriptionOption }, systemFailureErr [3] IMPLICIT SEQUENCE { invokeID InvokeIDType, errorCode ErrorLocalValues (systemFailure), parameter NetworkResource}, pw_RegistrationFailureErr [3] IMPLICIT SEQUENCE { invokeID InvokeIDType, errorCode ErrorLocalValues (pw_RegistrationFailure), parameter PW_RegistrationFailureCause } }, registerPassword_RejectComp [4] IMPLICIT RejectComponent } </pre>	
Detailed Comments:	Timer m

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

ASN.1 Type Definition	
Type Name:	RejectComponent
Comments:	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>	
Detailed Comments:	Reject Component is not specific to any particular operation. The invokeID may be used to identify a specific operation.

ASN.1 Type Definition	
Type Name:	RetrieveEMPTY_Components
Comments:	GSM 04.80, 4.2
Type Definition	
<pre> CHOICE { retrieveEMPTY_InvokeComp [1] IMPLICIT SEQUENCE { invokeID InvokeIDType, localValue INTEGER (122) }, retrieveEMPTY_ReturnResultComp [2] IMPLICIT SEQUENCE { invokeID InvokeIDType, result SEQUENCE { localValue INTEGER (122) } }, retrieveEMPTY_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} }, retrieveEMPTY_RejectComp [4] IMPLICIT RejectComponent } </pre>	
Detailed Comments:	Timer T_retrieveEMPTY (5 - 30 s)

ASN.1 Type Definition	
Type Name:	SplitMPTY_Components
Comments:	GSM 04.80, 4.2
Type Definition	
<pre> 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 } </pre>	
Detailed Comments:	Timer T_splitMPTY (5 - 30 s)

ASN.1 Type Definition	
Type Name:	UnstructuredSSNotify_Components
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	
Type Name:	UnstructuredSSRequest_Components
Comments:	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>	
Detailed Comments:	Timer m

ASN.1 Type Definition	
Type Name:	AddressString
Comments:	GSM 09.02, 14.7.8
Type Definition	
OCTET STRING (SIZE (1 .. maxAddressLength))	
Detailed Comments:	

ASN.1 Type Definition	
Type Name:	Asn1Integer
Comments:	INTEGER of ASN.1 type
Type Definition	
INTEGER	
Detailed Comments:	

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

ASN.1 Type Definition	
Type Name:	BasicServiceGroupList
Comments:	GSM 09.02, 14.7.8
Type Definition	
SEQUENCE SIZE (1 .. maxNumOfBasicServiceGroups) OF BasicServiceCode	
Detailed Comments:	

ASN.1 Type Definition	
Type Name:	BearerServiceCode
Comments:	GSM 09.02, 14.7.10
Type Definition	
OCTET STRING (SIZE (1))	
Detailed Comments:	

ASN.1 Type Definition	
Type Name:	CallBarringCause
Comments:	GSM 09.02, 14.7.7
Type Definition	
ENUMERATED { barringServiceActive (0), operatorBarring (1) }	
Detailed Comments:	

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

ASN.1 Type Definition	
Type Name:	CallBarringFeatureList
Comments:	GSM 09.02, 14.7.4
Type Definition	
SEQUENCE SIZE (1..maxNumOfBasicServiceGroups) OF CallBarringFeature	
Detailed Comments:	

ASN.1 Type Definition	
Type Name:	CallBarringInfo
Comments:	GSM 09.02, 14.7.4
Type Definition	
SEQUENCE { ss_Code SS_Code OPTIONAL, callBarringFeatureList CallBarringFeatureList }	
Detailed Comments:	

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

ASN.1 Type Definition	
Type Name:	CUG_Feature
Comments:	GSM 09.02, 14.7.4
Type Definition	
<pre>SEQUENCE { basicService BasicServiceCode OPTIONAL, preferentialCUG_Indicator CUG_Index OPTIONAL, interCUG_Restrictions InterCUG_Restrictions }</pre>	
Detailed Comments:	

ASN.1 Type Definition	
Type Name:	CUG_FeatureList
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
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
Comments:	GSM 09.02, 14.7.4
Type Definition	
OCTET STRING (SIZE (4))	
Detailed Comments:	

ASN.1 Type Definition	
Type Name:	CUG_Info
Comments:	GSM 09.02, 14.7.4
Type Definition	
<pre>SEQUENCE { cug_SubscriptionList CUG_SubscriptionList, cug_FeatureList CUG_FeatureList OPTIONAL }</pre>	
Detailed Comments:	

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

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

ASN.1 Type Definition	
Type Name:	ErrorLocalValues
Comments:	GSM 04.80, 4.5
Type Definition	
<pre>INTEGER { unknownSubscriber (1), illegalSubscriber (9), bearerServiceNotProvisioned (10), teleserviceNotProvisioned (11), illegalEquipment (12), callBarred (13), illegalSS_Operation (16), ss_ErrorStatus (17), ss_NotAvailable (18), ss_SubscriptionViolation (19), ss_Incompatibility (20), facilityNotSupported (21), absentSubscriber (27), systemFailure (34), dataMissing (35), unexpectedDataValue (36), pw_RegistrationFailure (37), negativePW_Check (38), numberOfPW_AttemptsViolation (43), unknownAlphabet (71), ussd_Busy (72), maxNumberOfMPTY_ParticipantsExceeded (126), resourcesNotAvailable (127) }</pre>	
Detailed Comments:	Elements of INTEGER are global for the ATS.

ASN.1 Type Definition	
Type Name:	ForwardingFeature
Comments:	GSM 09.02, 14.7.4
Type Definition	
<pre>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 }</pre>	
Detailed Comments:	

ASN.1 Type Definition	
Type Name:	InvokeIDType
Comments:	ITU-T, Q.773
Type Definition	
INTEGER (-128 .. 127)	
Detailed Comments:	<p>Values:</p> <p>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.</p> <p>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).</p>

ASN.1 Type Definition	
Type Name:	InvokeProblem
Comments:	ITU-T Q.767
Type Definition	
<pre>TCAP_Problems (duplicateInvokeID unrecognizedOperation mistypedArgument resourceLimitation initiatingRelease unrecognizedLinkedID linkedResponseUnexpected unexpectedLinkedOperation)</pre>	
Detailed Comments:	Type restricted to these 8.

ASN.1 Type Definition	
Type Name:	ISDN_AddressString
Comments:	GSM 09.02, 14.7.8
Type Definition	
AddressString (SIZE (1 .. maxISDN_AddressLength))	
Detailed Comments:	

ASN.1 Type Definition	
Type Name:	ISDN_SubaddressString
Comments:	GSM 09.02, 14.7.8
Type Definition	
OCTET STRING (SIZE (1 .. maxISDN_SubaddressLength))	
Detailed Comments:	

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

ASN.1 Type Definition	
Type Name:	NoReplyConditionTime
Comments:	GSM 09.02, 14.7.4
Type Definition	
INTEGER (5 .. 30)	
Detailed Comments:	

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

ASN.1 Type Definition	
Type Name:	OverrideCategory
Comments:	GSM 09.02, 14.7.4
Type Definition	
ENUMERATED { overrideEnabled (0), overrideDisabled (1) }	
Detailed Comments:	

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

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

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

ASN.1 Type Definition	
Type Name:	ReturnResultProblem
Comments:	ITU-T Q.767
Type Definition	
TCAP_Problems	(unrecognizedInvokeID returnResultUnexpected mistypedResult)
Detailed Comments:	Type restricted to these three.

ASN.1 Type Definition	
Type Name:	SS_Code
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
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
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
Comments:	GSM 09.02, 14.7.8
Type Definition	
SEQUENCE {	
ss_Code	[1] IMPLICIT SS_Code OPTIONAL,
basicService	BasicServiceCode OPTIONAL,
ss_Status	[4] SS_Status OPTIONAL }
Detailed Comments:	

ASN.1 Type Definition	
Type Name:	SS_Info
Comments:	GSM 09.02, 14.7.4
Type Definition	
CHOICE {	
forwardingInfo	[0] IMPLICIT ForwardingInfo,
callBarringInfo	[1] IMPLICIT CallBarringInfo,
cug_Info	[2] IMPLICIT CUG_Info,
ss_Data	[3] IMPLICIT SS_Data }
Detailed Comments:	

ASN.1 Type Definition	
Type Name:	SS_Status
Comments:	GSM 09.02, 14.7.4
Type Definition	
OCTET STRING (SIZE (1))	
Detailed Comments:	bits 8765: 0000 unused, bits 4: SS state information Q bit, bits 3: SS state information P bit, bits 2: SS state information R bit, bits 1: SS state information A bit.

ASN.1 Type Definition	
Type Name:	SS_SubscriptionOption
Comments:	GSM 09.02, 14.7.4
Type Definition	
CHOICE { overrideCategory [1] IMPLICIT OverrideCategory, cliRestrictionOption [2] IMPLICIT CliRestrictionOption }	
Detailed Comments:	

ASN.1 Type Definition	
Type Name:	SS_UserData
Comments:	GSM 09.02, 14.7.4
Type Definition	
IA5String (SIZE (1 .. maxSignalInfoLength))	
Detailed Comments:	

ASN.1 Type Definition	
Type Name:	TCAP_Problems
Comments:	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>	
Detailed Comments:	Errors of the same integer value are distinguished by their different parent types (General, Invoke, ReturnResult, ReturnError).

ASN.1 Type Definition	
Type Name:	TeleserviceCode
Comments:	GSM 09.02, 14.7.9
Type Definition	
OCTET STRING (SIZE (1))	
Detailed Comments:	

ASN.1 Type Definition	
Type Name:	USSD_Arg
Comments:	GSM 09.02, 14.7.4
Type Definition	
SEQUENCE { ussd_DataCodingScheme USSD_DataCodingScheme, ussd_String USSD_String }	
Detailed Comments:	

ASN.1 Type Definition	
Type Name:	USSD_Res
Comments:	GSM 09.02, 14.7.4
Type Definition	
SEQUENCE { ussd_DataCodingScheme USSD_DataCodingScheme, ussd_String USSD_String }	
Detailed Comments:	

ASN.1 Type Definition	
Type Name:	USSD_DataCodingScheme
Comments:	GSM 09.02, 14.7.4
Type Definition	
OCTET STRING (SIZE (1))	
Detailed Comments:	

ASN.1 Type Definition	
Type Name:	USSD_String
Comments:	GSM 09.02, 14.7.4
Type Definition	
OCTET STRING (SIZE (1..maxUSSD_StringLength))	
Detailed Comments:	The structure of the contents of the USSD-String is dependent on the USSD-DataCodingScheme as described in TS GSM03.38.

Test suite operation definitions

Test Suite Operation Definition	
Operation Name:	OC_Asn1intToOct(n:Asn1Integer; l: INTEGER)
Result Type:	OCTETSTRING
Comments:	
Description	
OC_Asn1intToOct converts the ASN.1 INTEGER 'n' into OCTETSTRING with length = 'l'.	
for example:	
OC_Asn1intToOct(14,1) = '0E'O;	
OC_Asn1intToOct(18,1) = '12'O;	
OC_Asn1intToOct(18,2) = '0012'O;	
OC_Asn1intToOct(-128,1) = '80'O (MSB (position p out of 1...p) represents $-2^{\exp(p-1)}$);	
OC_Asn1intToOct(-32768,2) = '8000'O (MSB (position p out of 1...p) represents $-2^{\exp(p-1)}$).	
Detailed Comments:	

Test Suite Operation Definition	
Operation Name:	OC_Bcap(setup:SETUP_MO_PDU; callproc:CALL_PROC_PDU; mem:INTEGER)
Result Type:	BCAP
Comments:	
Description	
OC_Bcap operation returns a bearer capability IE according the following rule:	
<ul style="list-style-type: none"> - for 'mem' = 1: <ul style="list-style-type: none"> - 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: <ul style="list-style-type: none"> - if bearer capability IE were presented in 'callproc' the returned BC is the bearer capability 2 of the 'callproc'; - otherwise, the returned bearer capability is the bearer capability 2 of the 'setup'. 	
Detailed Comments:	

Test Suite Operation Definition	
Operation Name:	OC_BinAdd(bitstr1:BITSTRING; bitstr2:BITSTRING)
Result Type:	BITSTRING
Comments:	
Description	
OC_BinAdd operation performs binary addition of two input parameters 'bitstr1' and 'bitstr2', then returns the result of the addition. These two input parameters shall have the same length, the result of the operation has the same length as the input parameters.	
for example:	
OC_BinAdd('01000'B, '00110'B) = '01110'B;	
OC_BinAdd('01000'B, '00011'B) = '01011'B;	
OC_BinAdd('00100'B, '00010'B) = '00110'B.	
Detailed Comments:	

Test Suite Operation Definition	
Operation Name:	OC_Bit7(bstring: B_8)
Result Type:	BITSTRING
Comments:	The input parameter bstring is of type BITSTRING[8].
Description	
OC_Bit7(bstring) returns the value of bit 7 in the 'bstring'.	
for example:	
OC_Bit7('01010101'B) = '1'B,	
OC_Bit7('10101010'B) = '0'B	
Detailed Comments:	

Test Suite Operation Definition	
Operation Name:	OC_BCDtoInt(bcdstring:HEXSTRING; relevant_digits: INTEGER)
Result Type:	INTEGER
Comments:	
Description	
The operation OC_BCDtoInt converts last 'relevant_digits' of an HEXSTRING containing BCD coded digits to an integer representation of these relevant digits.	
Example: OC_BCDtoInt('12345'H, 3) := 345	
Detailed Comments:	

Test Suite Operation Definition	
Operation Name:	OC_CalledNumCHK(callednum:OCTETSTRING; dialnum:IA5String)
Result Type:	BOOLEAN
Comments:	
Description	
the operation OC_CalledNumCHK to check whether the called party number 'callednum', which is represented by OCTETSTRING, is the same as the dialed number 'dialnum', which is represented by IA5String. It returns TRUE if they are the same, otherwise FALSE.	
Detailed Comments:	

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

Test Suite Operation Definition	
Operation Name:	OC_CnvtMax(max:INTEGER)
Result Type:	B_2
Comments:	
Description	
The allowed integer values for max are 1, 2, 4, 7 (maximum number of retransmissions). The result BITSTRING is 2 bits long. OC_CnvtMax converts the input integer 'max' into a BITSTRING according to the following rule:	
<ol style="list-style-type: none"> 1. the result is '00'B if the 'max' = 1, 2. the result is '01'B if the 'max' = 2, 3. the result is '10'B if the 'max' = 4, 4. the result is '11'B if the 'max' = 7. 	
for example:	
OC_CnvtMax(1) = '00'B, OC_CnvtMax(7) = '11'B.	
Detailed Comments:	

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

Test Suite Operation Definition	
Operation Name:	OC_CodeSMSCBMessage(firstoct: INTEGER; lastoct: INTEGER)
Result Type:	OCTETSTRING
Comments:	
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>	
Detailed Comments:	

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

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

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

Test Suite Operation Definition	
Operation Name:	OC_CphKeyGen(ki:BITSTRING; rand:BITSTRING)
Result Type:	BITSTRING
Comments:	both ki and rand are 128 bits values, the result of the operation is 64 bits value
Description	
OC_CphKeyGen generates the ciphering key from the input parameters according to the following procedure:	
<ul style="list-style-type: none"> - firstly the 'ki' XOR to the 'rand' results in RES1; - then discard the most significant 32 bits of the RES; - the next 64 bits of RES1 are the ciphering key, the operation returns this value. - the 32 least significant bits are not used. 	
Detailed Comments:	

Test Suite Operation Definition	
Operation Name:	OC_FirstDigi(bcddigits:HEXSTRING)
Result Type:	B_4
Comments:	
Description	
The input parameter bcddigits shall be a BCD string (subset of HEXSTRING), the result is a BITSTRING[4] of a binary representation of one BCD digit.	
The function of the OC_FirstDigi is to return the first (most significant) digit of the input parameter 'bcddigits'.	
for example:	
OC_FirstDigi('12345') = '0001'B,	
OC_FirstDigi('012345678') = '0000'B.	
Detailed Comments:	

Test Suite Operation Definition	
Operation Name:	OC_FnInc(fn:FN; inc:INTEGER)
Result Type:	FN
Comments:	
Description	
<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>	
Detailed Comments:	

Test Suite Operation Definition	
Operation Name:	OC_GetSCTimeStamp(timezone:TZONES)
Result Type:	TPSCTS
Comments:	TPSCTS is HEXSTRING[14]
Description	
<p>This Operation provides the hexstring containing the service centre 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 centre time stamp.</p> <p>Example: 1996 April 18, 15:32:46, timezone=4 OC_GetSCTimeStamp returns 69408151236440</p>	
Detailed Comments:	

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

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

Test Suite Operation Definition	
Operation Name:	OC_IntToOct(n:INTEGER; l: INTEGER)
Result Type:	OCTETSTRING
Comments:	
Description	
OC_IntToOct converts the INTEGER 'n' into OCTETSTRING with length = 'l'.	
for example:	
OC_IntToOct(14,1) = '0E'O;	
OC_IntToOct(18,1) = '12'O;	
OC_IntToOct(18,2) = '0012'O.	
Detailed Comments:	

Test Suite Operation Definition	
Operation Name:	OC_LeastBits(bstring:BITSTRING; lg:INTEGER)
Result Type:	BITSTRING
Comments:	
Description	
OC_LeastBits operation returns the 'lg' least significant bits of the original 'bstring'.	
for example:	
OC_LeastBits('110011000101010'B, 3) = '010'B,	
OC_LeastBits('110011000101010'B, 6) = '101010'B.	
Detailed Comments:	

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

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

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

Test Suite Operation Definition	
Operation Name:	OC_LengthOfComp1(comp: Components)
Result Type:	LENGTH
Comments:	
Description	
OC_LengthOfComp1 operation returns the actual length of the Components 'comp', the unit of length is in OCTET.	
Detailed Comments:	

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

Test Suite Operation Definition	
Operation Name:	OC_LookupS(t: INTEGER; combined :BOOLEAN)
Result Type:	INTEGER
Comments:	the algorithm is derived from table 3.1/GSM 04.08 for values of parameter S.
Description	
<p>This operation returns an INTEGER according the following algorithm:</p> <pre> 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; } } </pre>	
Detailed Comments:	

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

Test Suite Operation Definition	
Operation Name:	OC_MsrReptChk(msrres: MSRR; index:INTEGER)
Result Type:	BOOLEAN
Comments:	parameter index is used for selecting different match pattern
Description	
OC_MsrReptChk operation checks whether the received measurement report contains correct values:	
1. when the 'index' = 1: <pre> 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. </pre>	
2. when the 'index' = 2: <pre> 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. </pre>	
3. when the 'index' = 3: <pre> 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. </pre>	
4. when the 'index' = 4 : <pre> 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. </pre>	
5. when the 'index' = 5 : <pre> 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. </pre>	

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.

```
7. when the 'index' = 7:
- ```

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.

```
8. when the 'index' = 8 :
- ```

if set { { msrres.bcchfrq_nc1, msrres.bsic_nc1}, { msrres.bcchfrq_nc2, msrres.bsic_nc2}
 }
equals to
set { {'00000'B, '001011'B}, {'00010'B, '001101'B}
 }
then the operation returns TRUE otherwise FALSE.

```
9. when the 'index' = 9 :
- ```

if set { { msrres.bcchfrq_nc1, msrres.bsic_nc1}, { msrres.bcchfrq_nc2, msrres.bsic_nc2}
      }
equals to
set { {'00110'B, '001011'B}, {'00111'B, '001101'B}
    }
then the operation returns TRUE otherwise FALSE.

```
10. when the 'index' = 10 :
- ```

if set { { msrres.bcchfrq_nc1, msrres.bsic_nc1}, { msrres.bcchfrq_nc2, msrres.bsic_nc2}
 }
equals to
set { {'00011'B, '001011'B}, {'00101'B, '001101'B}
 }
then the operation returns TRUE otherwise FALSE.

```

**Detailed Comments:**

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                          |                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| <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]. |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                              |                                                                                                         |
| <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,<br/>           OC_OeBit('87259957') = '0'B.</p> |                                                                                                         |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                                                       |                                                                                                         |

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

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | OC_OctToInvokeIDType(o:OCTETSTRING) |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | InvokeIDType                        |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                     |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                     |
| <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-&gt;'10000000'B-&gt; -128. The rest of the bits can code positive values up to <math>+2^{\exp(n-2)-1}</math>, for example '4F'O-&gt;'01111111'B-&gt; +127.</p> <p>for example:</p> <p>OC_OctToInvokeIDType('80'O) = -128;<br/>           OC_OctToInvokeIDType('81'O) = -128+1 = -127;<br/>           OC_OctToInvokeIDType('40'O) = +64.<br/>           OC_OctToInvokeIDType('7F'O) = +127.<br/>           OC_OctToInvokeIDType('C0'O) = -128+64 = -64.</p> |                                     |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                     |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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 'FH or a BCD digit. |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                             |
| The function of the OC_OtherDigi is as the following: <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 'FH, then removes the most significant digit, and then reverses the order of each pair of digits.</li> </ol> for example:<br><br>OC_OtherDigi('12345') = '3254',<br>OC_OtherDigi('12345678') = '325476F8'. |                                                                                                                                                                             |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                             |

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

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                           |
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| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | OC_RachSlots(fn1:FN; fn2:FN; cmbn: BOOLEAN; mode:INTEGER) |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | INTEGER                                                   |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                           |
| 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<br/>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.<br/>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),<br/>A test system error! The calling test case shall re-run again.<br/>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.<br/>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.<br/>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,<br/>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.<br/><br/>IF (fn2' &lt; 4) OR (5 &lt; fn2' &lt; 14) OR (36 &lt; fn2' &lt; 45) OR (fn2' &gt; 46), OC_RachSlots := -9999<br/>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.<br/>OTHERWISE</p> <p>2.1.2 Calculation of the number 'c' multiframes between fn1 + 3 and fn2. If fn1 + 3 is equal to or greater than fn2, then this is due to fn2 being in the next group of 42432 frames. In this case 42432 frames have to be added. '/' shall be the integer division, i.e. the result is also integer. Fractions are discarded.</p> <p>2.1.2.1 IF (fn1 + 3) &lt; fn2, c := fn2 / 51 - (fn1 + 3) / 51<br/>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<br/>IF (5 &lt; fn1' &lt; 9) , a := 2</p> |                                                           |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <p>IF (fn1' =9),           a := 3<br/>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.<br/>IF (fn2' &lt; 4) OR (5 &lt; fn2' &lt; 14) OR (36 &lt; fn2' &lt; 45) OR (fn2' &gt; 46)<br/>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' multiframes between fn1 and fn2<br/>2.2.2.1 IF fn1 &lt; fn2,   c := fn2 / 51 - fn1 / 51<br/>2.2.2.2 IF fn2 &lt;= fn1  c := fn2 / 51 - fn1 / 51 + 42432 / 51 = fn2 / 51 - fn1 / 51 + 832</p> <p>2.2.3 Calculation of the number of frames 'a' to be subtracted according to the position of fn1' within the multiframe<br/>IF (3 &lt; fn1' &lt; 6:),     a:= fn1' - 3<br/>IF (13 &lt; fn1' &lt; 37),   a:= fn1' - 11<br/>IF (44 &lt; fn1' &lt; 47),   a:= fn1' - 19</p> <p>2.3 Calculation of the number of slots 'b' to be added according to the position of fn2' within the multiframe<br/>IF (3 &lt; fn2' &lt; 6:),     b:= fn2' - 4<br/>IF (13 &lt; fn2' &lt; 37),   b:= fn2' - 12<br/>IF (44 &lt; fn2' &lt; 47),   b:= fn2' - 20</p> <p>2.4 Calculation of the number of RACH slots. There are 27 RACH slots in each multiframe.<br/>OC_RachSlots := 27 * c + b - a</p> <p><b>Detailed Comments:</b>       TC_26_2_1_1 uses mode=0. TC_26_2_1_2 uses mode=1.</p> |
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| <b>Test Suite Operation Definition</b>                                                               |                                   |
|------------------------------------------------------------------------------------------------------|-----------------------------------|
| <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:<br>'n1', 'n1'+1, ..., 'n2' |                                   |
| <b>Detailed Comments:</b>                                                                            |                                   |

| <b>Test Suite Operation Definition</b>                                                    |                                                     |
|-------------------------------------------------------------------------------------------|-----------------------------------------------------|
| <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>                                                                 |                                                     |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | OC_SaveAndProc1(val:INTEGER; mode :INTEGER; cnt:INTEGER; cmbnd:BOOLEAN)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | BOOLEAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | This operation is used for storing and analysing the CHANNEL REQUEST message distribution.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 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) 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&lt;(151 + 8)) then { buf[cnt] = val; return (TRUE); } if (cmbnd == C_Combined) AND (val&lt;(81 + 8)) then { buf[cnt] = val; return (TRUE); } else return (FALSE); } if (mode == PROC) { for (i=0, i&lt;200, i++) { n=0; for (j=0, j&lt;200, j++) if (buf[j] == buf[i]) n = n+1; if (n &gt; 41) return (FALSE); } return(TRUE); } } </pre> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <p>This test suite operation has two operation modes :</p> <ul style="list-style-type: none"> <li>- 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.</li> <li>- 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, <math>CARD\{ k f(k) = n \} \leq 41</math>)</li> </ul> |



| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <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 style="margin: 0;">                     #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> |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | OC_SaveAndRetrv(val:RQR; mode, idx, ex: INTEGER)                                                                                                                                                                                                                                                  |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | RQR                                                                                                                                                                                                                                                                                               |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | This operation is used for storing and retrieving the random reference.                                                                                                                                                                                                                           |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                   |
| <p>The function of this test suite operation is (in prose):</p> <ul style="list-style-type: none"> <li>- 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.</li> <li>- it returns the value stored in the internal buffer buf[idx] when the mode = RETRV and ex = 0.</li> <li>- 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 &lt;&gt; 0, if ex &lt;&gt; 0. The idx is ranged between 10-13.</li> </ul> <p>The function of this operation is defined as an pseudo C code:</p> <pre> #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 &lt; 13, j++)     {       for (i=1, i &lt; 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]); } </pre> |                                                                                                                                                                                                                                                                                                   |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <p>0. The pseudo C code gives one of the possible implementations for the OC description in prose.</p> <p>1. '00'O should be understood as equivalence of Fn_01, a TTCN structured type constraint.</p> <p>2. The OC can save maximum 13 RQR values. In SAVE mode, idx is ranged between 1-9.</p> |

3. For  $ex < > 0$ , there are maximum 13 scans. In each scan a new value is assigned to `buf[0].ra`. If there is a 'non-match' in one of the 13 scans the `buf[0]` is returned. In case of 'all-match' for the 13 scans, the pair of (`buf[i].ra + '00000001'` at the last scan, `buf[idx].fn` is returned (`idx` is ranged between 10 - 13).

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                     |
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| <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,<br/>t is the "delay" in applying the new frequencies,<br/>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 \                     </pre> |                                     |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                     |                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| <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>                                                                                                                                                                                  |                                            |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | OC_SubchOfFacchh(subch: B_1; cell:CellID; inst:INTEGER) |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | LOGICCH                                                 |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | subch is of type BITSTRING[1]                           |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                         |
| <p>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.</p> <p>for example:</p> <p>OC_SubchOfFacchh('0'B, C_CellA, 1) = C_FACCHH0_A_1;<br/> OC_SubchOfFacchh('1'B, C_CellA, 1) = C_FACCHH1_A_1;<br/> OC_SubchOfFacchh('0'B, C_CellB, 1) = C_FACCHH0_B_1;<br/> OC_SubchOfFacchh('1'B, C_CellB, 1) = C_FACCHH1_B_1.</p> <p>pseudo C code definition for the operation as following :</p> <pre> OC_SubchOfFacchh(subch, cell, inst) BITSTRING subch; CellID cell; INTEGER inst; {   LOGICCH logch;   if (subch=='0'B &amp;&amp; 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 &amp;&amp; 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 &amp;&amp; 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=='1'B &amp;&amp; cell == C_CellA)     switch (inst)     {       case 1 : logch = C_FACCHH1_A_1; break;       case 2 : logch = C_FACCHH1_A_2; break;       case 3 : logch = C_FACCHH1_A_3; break;     }   if (subch=='1'B &amp;&amp; cell == C_CellB)     switch (inst)     {       case 1 : logch = C_FACCHH1_B_1; break;       case 2 : logch = C_FACCHH1_B_2; break;       case 3 : logch = C_FACCHH1_B_3; break;     }   if (subch=='1'B &amp;&amp; cell == C_CellC)     switch (inst)     {       case 1 : logch = C_FACCHH1_C_1; break;       case 2 : logch = C_FACCHH1_C_2; break;     } } </pre> |                                                         |

```
 case 3 : logch = C_FACCHH1_C_3; break;
 }
 return(logch);
}
```

**Detailed Comments:**

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| <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]                           |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                         |
| <p>OC_SubchOfSacchh operation returns a logic channel identifier for SACCHH subchannel indicated by the input parameters 'subch', 'cell' and 'inst', where 'subch' is the subchannel number, 'cell' is the cell identifier which the channel belongs to, 'inst' is the instance of the channel.</p> <p>for example:</p> <pre>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.</pre> <p>pseudo C code definition for the operation as following :</p> <pre>OC_SubchOfSacchh(subch, cell, inst) BITSTRING subch; CellID cell; INTEGER inst; {   LOGICCH logch;   if (subch=='0'B &amp;&amp; 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 &amp;&amp; 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 &amp;&amp; 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=='1'B &amp;&amp; cell == C_CellA)     switch (inst)     {       case 1 : logch = C_SACCHH1_A_1; break;       case 2 : logch = C_SACCHH1_A_2; break;       case 3 : logch = C_SACCHH1_A_3; break;     }   if (subch=='1'B &amp;&amp; cell == C_CellB)     switch (inst)     {       case 1 : logch = C_SACCHH1_B_1; break;       case 2 : logch = C_SACCHH1_B_2; break;       case 3 : logch = C_SACCHH1_B_3; break;     }   if (subch=='1'B &amp;&amp; cell == C_CellC)     switch (inst)     {       case 1 : logch = C_SACCHH1_C_1; break;       case 2 : logch = C_SACCHH1_C_2; break;</pre> |                                                         |

```

 case 3 : logch = C_SACCHH1_C_3; break;
 }
 return(logch);
}

```

**Detailed Comments:**

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | OC_SubchOfSacch4(subch: B_2; cell:CellID) |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | LOGICCH                                   |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                           |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                           |
| <p>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.</p> <p>for example:</p> <pre> 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. </pre> <p>pseudo C code definition for the operation as following :</p> <pre> 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;         }     return(logch); } </pre> |                                           |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                           |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| <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]                          |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                         |
| <p>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.</p> <p>for example:</p> <pre> 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.</pre> <p>pseudo C code definition for the operation as following:</p> <pre> OC_SubchOfSacch8(subch, cell, inst) BITSTRING subch; CellID cell; INTEGER inst; {   LOGICCH logch;   if (inst==1 &amp;&amp; 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 &amp;&amp; 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 &amp;&amp; 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;</pre> |                                                         |



```

 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;
 case '101'B : logch = C_SACCHC85_B_1; break;
 case '110'B : logch = C_SACCHC86_B_1; break;
 case '111'B : logch = C_SACCHC87_B_1; break;
 }
if (inst==2 && cell == C_CellB)
 switch (subch)
 {
 case '000'B : logch = C_SACCHC80_B_2; break;
 case '001'B : logch = C_SACCHC81_B_2; break;
 case '010'B : logch = C_SACCHC82_B_2; break;
 case '011'B : logch = C_SACCHC83_B_2; break;
 case '100'B : logch = C_SACCHC84_B_2; break;
 case '101'B : logch = C_SACCHC85_B_2; break;
 case '110'B : logch = C_SACCHC86_B_2; break;
 case '111'B : logch = C_SACCHC87_B_2; break;
 }
if (inst==3 && cell == C_CellB)
 switch (subch)
 {
 case '000'B : logch = C_SACCHC80_B_3; break;
 case '001'B : logch = C_SACCHC81_B_3; break;
 case '010'B : logch = C_SACCHC82_B_3; break;
 case '011'B : logch = C_SACCHC83_B_3; break;
 case '100'B : logch = C_SACCHC84_B_3; break;
 case '101'B : logch = C_SACCHC85_B_3; break;
 case '110'B : logch = C_SACCHC86_B_3; break;
 case '111'B : logch = C_SACCHC87_B_3; break;
 }
if (inst==1 && cell == C_CellC)
 switch (subch)
 {
 case '000'B : logch = C_SACCHC80_C_1; break;
 case '001'B : logch = C_SACCHC81_C_1; break;
 case '010'B : logch = C_SACCHC82_C_1; break;
 case '011'B : logch = C_SACCHC83_C_1; break;
 case '100'B : logch = C_SACCHC84_C_1; break;
 case '101'B : logch = C_SACCHC85_C_1; break;
 case '110'B : logch = C_SACCHC86_C_1; break;
 case '111'B : logch = C_SACCHC87_C_1; break;
 }
if (inst==2 && cell == C_CellC)
 switch (subch)
 {
 case '000'B : logch = C_SACCHC80_C_2; break;
 case '001'B : logch = C_SACCHC81_C_2; break;
 case '010'B : logch = C_SACCHC82_C_2; break;
 case '011'B : logch = C_SACCHC83_C_2; break;
 case '100'B : logch = C_SACCHC84_C_2; break;
 case '101'B : logch = C_SACCHC85_C_2; break;
 case '110'B : logch = C_SACCHC86_C_2; break;
 case '111'B : logch = C_SACCHC87_C_2; break;
 }

```

```
if (inst==3 && cell == C_CellC)
 switch (subch)
 {
 case '000'B : logch = C_SACCHC80_C_3; break;
 case '001'B : logch = C_SACCHC81_C_3; break;
 case '010'B : logch = C_SACCHC82_C_3; break;
 case '011'B : logch = C_SACCHC83_C_3; break;
 case '100'B : logch = C_SACCHC84_C_3; break;
 case '101'B : logch = C_SACCHC85_C_3; break;
 case '110'B : logch = C_SACCHC86_C_3; break;
 case '111'B : logch = C_SACCHC87_C_3; break;
 }
return(logch);
}
```

**Detailed Comments:**

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | OC_SubchOfSdcch4(subch: B_2; cell:CellID) |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | LOGICCH                                   |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                           |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                           |
| <p>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.</p> <p>for example:</p> <pre> 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.</pre> <p>pseudo C code definition for the operation as following :</p> <pre> 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;     }   return(logch); }</pre> |                                           |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                           |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                         |
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| <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]                          |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                         |
| <p>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.</p> <p>for example:</p> <pre> 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.</pre> <p>pseudo C code definition for the operation as following:</p> <pre> OC_SubchOfSdcch8(subch, cell, inst) BITSTRING subch; CellID cell; INTEGER inst; {   LOGICCH logch;   if (inst==1 &amp;&amp; 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 &amp;&amp; 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 &amp;&amp; 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;</pre> |                                                         |

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 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;
 case '101'B : logch = C_SDCCH85_B_1; break;
 case '110'B : logch = C_SDCCH86_B_1; break;
 case '111'B : logch = C_SDCCH87_B_1; break;
 }
if (inst==2 && cell == C_CellB)
 switch (subch)
 {
 case '000'B : logch = C_SDCCH80_B_2; break;
 case '001'B : logch = C_SDCCH81_B_2; break;
 case '010'B : logch = C_SDCCH82_B_2; break;
 case '011'B : logch = C_SDCCH83_B_2; break;
 case '100'B : logch = C_SDCCH84_B_2; break;
 case '101'B : logch = C_SDCCH85_B_2; break;
 case '110'B : logch = C_SDCCH86_B_2; break;
 case '111'B : logch = C_SDCCH87_B_2; break;
 }
if (inst==3 && cell == C_CellB)
 switch (subch)
 {
 case '000'B : logch = C_SDCCH80_B_3; break;
 case '001'B : logch = C_SDCCH81_B_3; break;
 case '010'B : logch = C_SDCCH82_B_3; break;
 case '011'B : logch = C_SDCCH83_B_3; break;
 case '100'B : logch = C_SDCCH84_B_3; break;
 case '101'B : logch = C_SDCCH85_B_3; break;
 case '110'B : logch = C_SDCCH86_B_3; break;
 case '111'B : logch = C_SDCCH87_B_3; break;
 }
if (inst==1 && cell == C_CellC)
 switch (subch)
 {
 case '000'B : logch = C_SDCCH80_C_1; break;
 case '001'B : logch = C_SDCCH81_C_1; break;
 case '010'B : logch = C_SDCCH82_C_1; break;
 case '011'B : logch = C_SDCCH83_C_1; break;
 case '100'B : logch = C_SDCCH84_C_1; break;
 case '101'B : logch = C_SDCCH85_C_1; break;
 case '110'B : logch = C_SDCCH86_C_1; break;
 case '111'B : logch = C_SDCCH87_C_1; break;
 }
if (inst==2 && cell == C_CellC)
 switch (subch)
 {
 case '000'B : logch = C_SDCCH80_C_2; break;
 case '001'B : logch = C_SDCCH81_C_2; break;
 case '010'B : logch = C_SDCCH82_C_2; break;
 case '011'B : logch = C_SDCCH83_C_2; break;
 case '100'B : logch = C_SDCCH84_C_2; break;
 case '101'B : logch = C_SDCCH85_C_2; break;
 case '110'B : logch = C_SDCCH86_C_2; break;
 case '111'B : logch = C_SDCCH87_C_2; break;
 }

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if (inst==3 && cell == C_CellC)
 switch (subch)
 {
 case '000'B : logch = C_SDCCH80_C_3; break;
 case '001'B : logch = C_SDCCH81_C_3; break;
 case '010'B : logch = C_SDCCH82_C_3; break;
 case '011'B : logch = C_SDCCH83_C_3; break;
 case '100'B : logch = C_SDCCH84_C_3; break;
 case '101'B : logch = C_SDCCH85_C_3; break;
 case '110'B : logch = C_SDCCH86_C_3; break;
 case '111'B : logch = C_SDCCH87_C_3; break;
 }
return(logch);
}

```

**Detailed Comments:**

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | OM_2Msgs(ch:LOGICCH; pgg:PGG; mode:SENDINGMODE) |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | BOOLEAN                                         |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                 |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |
| 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:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                 |
| <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> |                                                 |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                 |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 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) |                  |                  |          |                 |         |                |            |                                     |          |                 |           |                                                                                            |            |                                                                                              |            |                                     |              |                                                |              |                                                                  |               |                                                                    |              |                                                |              |                                                                  |               |                                                                    |             |                                      |              |                                        |               |                                                          |                |                                                            |            |                                      |             |                                        |               |                                                          |               |                                                            |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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                          |            |                                      |             |                                        |               |                                                          |               |                                                            |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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                          |            |                                      |             |                                        |               |                                                          |               |                                                            |
| <p>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.</p> <p>The 'lgch1' can be an identifier for SDCCH4, SDCCH8, FACCH and the 'lgch2' can be SACCHC4, SACCHC8, and SACCHH.</p> <p>"dummy" in the actual parameter list means the corresponding parameter is not used.</p> <p>Naming convention for logical channel constants:</p> <p style="margin-left: 40px;">C_&lt;channel type&gt;[&lt;rate&gt;][&lt;subchannel&gt;][_&lt;cell&gt;][_&lt;instance&gt;]</p> <p>e.g: C_FACCH H 0 _C _3 =&gt; C_FACCHH0_C_3</p> <p>channel type: FCCH, SCH, BCCH, CBCH, PCH, RACH, FACCH, SACCH, SDCCH, DCCH</p> <p>rate: F(ull), H(alf), 4 (fourths, C4 for SACCHC4), 8 (eighths, C8 for SACCHC8).</p> <p>subchannel: H: 0, 1<br/>(C)4: 0, ..., 3<br/>(C)8: 0, ..., 7</p> <p>cell: A, ..., H</p> <p>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.</p> <p>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.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 20%;"><b>Examples:</b></td> <td><b>Comments:</b></td> </tr> <tr> <td>C_FCCH_A</td> <td>FCCH of cell A.</td> </tr> <tr> <td>C_SCH_A</td> <td>SCH of cell A.</td> </tr> <tr> <td>C_BCCH_A_1</td> <td>First instance of a BCCH in cell A.</td> </tr> <tr> <td>C_CBCH_A</td> <td>CBCH of cell A.</td> </tr> <tr> <td>C_PCH_A_1</td> <td>First instance of a PCH in cell A (there is one instance of the PCH per BCCH in the cell).</td> </tr> <tr> <td>C_AGCH_A_1</td> <td>First instance of a AGCH in cell A (there is one instance of the AGCH per BCCH in the cell).</td> </tr> <tr> <td>C_RACH_A_1</td> <td>First instance of a RACH in cell A.</td> </tr> <tr> <td>C_FACCHF_A_1</td> <td>First instance of a full rate FACCH in cell A.</td> </tr> <tr> <td>C_FACCHH_A_1</td> <td>First instance of a half rate FACCH in cell A (all subchannels).</td> </tr> <tr> <td>C_FACCHH0_A_1</td> <td>Subchannel 0 of the first instance of a half rate FACCH in cell A.</td> </tr> <tr> <td>C_SACCHF_A_1</td> <td>First instance of a full rate SACCH in cell A.</td> </tr> <tr> <td>C_SACCHH_A_1</td> <td>First instance of a half rate SACCH in cell A (all subchannels).</td> </tr> <tr> <td>C_SACCHH1_A_1</td> <td>Subchannel 1 of the first instance of a half rate SACCH in cell A.</td> </tr> <tr> <td>C_SACCHC4_A</td> <td>SACCH/4 of cell A (all subchannels).</td> </tr> <tr> <td>C_SACCHC43_A</td> <td>Subchannel 3 of the SACCH/4 of cell A.</td> </tr> <tr> <td>C_SACCHC8_A_1</td> <td>First instance of a SACCH/8 in cell A (all subchannels).</td> </tr> <tr> <td>C_SACCHC87_A_1</td> <td>Subchannel 7 of the first instance of a SACCH/8 in cell A.</td> </tr> <tr> <td>C_SDCCH4_A</td> <td>SDCCH/4 of cell A (all subchannels).</td> </tr> <tr> <td>C_SDCCH42_A</td> <td>Subchannel 2 of the SDCCH/4 of cell A.</td> </tr> <tr> <td>C_SDCCH87_A_1</td> <td>First instance of a SDCCH/8 in cell A (all subchannels).</td> </tr> <tr> <td>C_SDCCH87_A_1</td> <td>Subchannel 7 of the first instance of a SDCCH/8 in cell A.</td> </tr> </table> |                                                                                                                                                                                                                                                                                                                                                 | <b>Examples:</b> | <b>Comments:</b> | 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. |
| <b>Examples:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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                          |            |                                      |             |                                        |               |                                                          |               |                                                            |
| C_FCCH_A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | FCCH of cell A.                                                                                                                                                                                                                                                                                                                                 |                  |                  |          |                 |         |                |            |                                     |          |                 |           |                                                                                            |            |                                                                                              |            |                                     |              |                                                |              |                                                                  |               |                                                                    |              |                                                |              |                                                                  |               |                                                                    |             |                                      |              |                                        |               |                                                          |                |                                                            |            |                                      |             |                                        |               |                                                          |               |                                                            |
| C_SCH_A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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          |          |                 |           |                                                                                            |            |                                                                                              |            |                                     |              |                                                |              |                                                                  |               |                                                                    |              |                                                |              |                                                                  |               |                                                                    |             |                                      |              |                                        |               |                                                          |                |                                                            |            |                                      |             |                                        |               |                                                          |               |                                                            |
| C_BCCH_A_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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          |          |                 |           |                                                                                            |            |                                                                                              |            |                                     |              |                                                |              |                                                                  |               |                                                                    |              |                                                |              |                                                                  |               |                                                                    |             |                                      |              |                                        |               |                                                          |                |                                                            |            |                                      |             |                                        |               |                                                          |               |                                                            |
| C_CBCH_A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CBCH of cell A.                                                                                                                                                                                                                                                                                                                                 |                  |                  |          |                 |         |                |            |                                     |          |                 |           |                                                                                            |            |                                                                                              |            |                                     |              |                                                |              |                                                                  |               |                                                                    |              |                                                |              |                                                                  |               |                                                                    |             |                                      |              |                                        |               |                                                          |                |                                  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| C_PCH_A_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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          |          |                 |           |                                                                                            |            |                                                                                              |            |                                     |              |                                                |              |                                                                  |               |                                                                    |              |                                                |              |                                                                  |               |                                                                    |             |                                      |              |                                        |               |                                                          |                |                                  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| C_AGCH_A_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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          |          |                 |           |                                                                                            |            |                                                                                              |            |                                     |              |                                                |              |                                                                  |               |                                                                    |              |                                                |              |                                                                  |               |                                                                    |             |                                      |              |                                        |               |                                                          |                |                                  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| C_RACH_A_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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          |          |                 |           |                                                                                            |            |                                                                                              |            |                                     |              |                                                |              |                                                                  |               |                                                                    |              |                                                |              |                                                                  |               |                                                                    |             |                                      |              |                                        |               |                                                          |                |                                                            |            |                                      |             |                                        |               |                                                          |               |                                                            |
| C_FACCHF_A_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | First instance of a full rate FACCH in cell A.                                                                                                                                                                                                                                                                                                  |                  |                  |          |                 |         |                |            |                                     |          |                 |           |                                                                                            |            |                                                                                              |            |                                     |              |                                                |              |                                                                  |               |                                                                    |              |                                                |              |                                                                  |               |                                                                    |             |                                      |              |                                        |               |                                                          |                |                                  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| C_FACCHH_A_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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          |          |                 |           |                                                                                            |            |                                                                                              |            |                                     |              |                                                |              |                                                                  |               |                                                                    |              |                                                |              |                                                                  |               |                                                                    |             |                                      |              |                                        |               |                                                          |                |                                                            |            |                                      |             |                                        |               |                                                          |               |                                                            |
| C_FACCHH0_A_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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          |          |                 |           |                                                                                            |            |                                                                                              |            |                                     |              |                                                |              |                                                                  |               |                                                                    |              |                                                |              |                                                                  |               |                                                                    |             |                                      |              |                                        |               |                                                          |                |                                                            |            |                                      |             |                                        |               |                                                          |               |                                                            |
| C_SACCHF_A_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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          |          |                 |           |                                                                                            |            |                                                                                              |            |                                     |              |                                                |              |                                                                  |               |                                                                    |              |                                                |              |                                                                  |               |                                                                    |             |                                      |              |                                        |               |                                                          |                |                                                            |            |                                      |             |                                        |               |                                                          |               |                                                            |
| C_SACCHH_A_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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          |          |                 |           |                                                                                            |            |                                                                                              |            |                                     |              |                                                |              |                                                                  |               |                                                                    |              |                                                |              |                                                                  |               |                                                                    |             |                                      |              |                                        |               |                                                          |                |                                                            |            |                                      |             |                                        |               |                                                          |               |                                                            |
| C_SACCHH1_A_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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          |          |                 |           |                                                                                            |            |                                                                                              |            |                                     |              |                                                |              |                                                                  |               |                                                                    |              |                                                |              |                                                                  |               |                                                                    |             |                                      |              |                                        |               |                                                          |                |                                                            |            |                                      |             |                                        |               |                                                          |               |                                                            |
| C_SACCHC4_A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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          |          |                 |           |                                                                                            |            |                                                                                              |            |                                     |              |                                                |              |                                                                  |               |                                                                    |              |                                                |              |                                                                  |               |                                                                    |             |                                      |              |                                        |               |                                                          |                |                                  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| C_SACCHC43_A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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          |          |                 |           |                                                                                            |            |                                                                                              |            |                                     |              |                                                |              |                                                                  |               |                                                                    |              |                                                |              |                                                                  |               |                                                                    |             |                                      |              |                                        |               |                                                          |                |                                  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| C_SACCHC8_A_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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          |          |                 |           |                                                                                            |            |                                                                                              |            |                                     |              |                                                |              |                                                                  |               |                                                                    |              |                                                |              |                                                                  |               |                                                                    |             |                                      |              |                                        |               |                                                          |                |                                                            |            |                                      |             |                                        |               |                                                          |               |                                                            |
| C_SACCHC87_A_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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          |          |                 |           |                                                                                            |            |                                                                                              |            |                                     |              |                                                |              |                                                                  |               |                                                                    |              |                                                |              |                                                                  |               |                                                                    |             |                                      |              |                                        |               |                                                          |                |                                                            |            |                                      |             |                                        |               |                                                          |               |                                                            |
| C_SDCCH4_A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SDCCH/4 of cell A (all subchannels).                                                                                                                                                                                                                                                                                                            |                  |                  |          |                 |         |                |            |                                     |          |                 |           |                                                                                            |            |                                                                                              |            |                                     |              |                                                |              |                                                                  |               |                                                                    |              |                                                |              |                                                                  |               |                                                                    |             |                                      |              |                                        |               |                                                          |                |                                  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| 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).                                                                                                                                                                                                                                                                                        |                  |                  |          |                 |         |                |            |                                     |          |                 |           |                                                                                            |            |                                                                                              |            |                                     |              |                                                |              |                                                                  |               |                                                                    |              |                                                |              |                                                                  |               |                                                                    |             |                                      |              |                                        |               |                                                          |                |                                  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| C_SDCCH87_A_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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          |          |                 |           |                                                                                            |            |                                                                                              |            |                                     |              |                                                |              |                                                                  |               |                                                                    |              |                                                |              |                                                                  |               |                                                                    |             |                                      |              |                                        |               |                                                          |                |                                  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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 (e.g. 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:**

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                           |                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| <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 |
| <b>Description</b>                                                                                                                                                                                                               |                                                                      |
| 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>                                                                                                                                                                                                        |                                                                      |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | OM_ChangeRFOf2Cells( cellid1:CellID; bspwr1:INTEGER; cellid2:CellID; bspwr2:INTEGER) |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | BOOLEAN                                                                              |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                      |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                      |
| <p>This TSO is 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 major purpose of the TSO is to force the MS to reselect a new cell according to the GSM 05.08, subclause 6.6.2. The following example shows the use of the TSO.</p> <p>The default cell selection parameters in the ATS are set as:</p> <p>Cell reselect hysteresis: 12db<br/>                     MX TXPWR MX CCH:     minimu level (0)<br/>                     ACS:                 no additional cell selection parameter (0)<br/>                     RXLEV ACCESS MIN:     minimum (0).</p> <p>Therefore the path loss criterion parameter C1 equals to the reselection criterion parameter C2. In the whole ATS the C1 and C2 keeps greater than 10 (e.g. TC_26_7_4_2_3) for a cell not suitable. The MS received level average from a not suitable cell keeps also greater than 10 (-100 dBm) corresponding to the reference sensitivity level of DCS 1800 MS.</p> <p>For GSM arfcn = 20, F = 941 MHz , the fields strengths (E) on tester integral antenna:<br/>                     E (dB microV/m) &gt;= (-110 + 10) (dBm) + 20log(941) + 77.2 = 36.7,<br/>                     For DCS arfcn = 590, F = (-110 + 10) (dBm) + 20log(1820.8) + 77.2 = 42.4 (the formula see GSM 05.05, clause 5 and GSM 05.08, subclause 8.1.4).</p> <p>In order to keep C1, C2 greater 10, a reasonable field strength making a cell not suitable is set to C_E_notsuitable = 45 in comparison with the default field strength C_E_default = 63. Considering that the cell reselect hysteresis is set to 12 db, the field strength of a cell being reselected need to be set to greater than 57. In the ATS the default value C_E_default (63) and C_E_notsuitable (45) are used for this TSO to force MS making cell reselection assuming that the two cells have different location area..</p> <p>If two cells have the same location area (e.g. in TC_26_6_1_3), or although two cells have different LAI, the test cases needs to lower a cell power to a certain low level (e.g. in TC_26_7_4_2_4_1 and TC_26_7_4_2_4_5), C1 needs to be less than zero to force the MS reselect a better cell. For GSM, E &lt;= 26.7, for DCS, E &lt;= 32.4. The value C_E_notsuitable_sameLAI = 24 applies to the TSO to force the MS making cell reselection.</p> |                                                                                      |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                      |



| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | OM_ChConf(bspwr: INTEGER; mspwr: INTEGER; acttype: BITSTRING; chmod: CHMOD; ta: TA; slot: SN; tsc: TSC; rf: FRQPARA; chcmbn: LOGCH; td: INTEGER; fn: INTEGER; babr, cch_con, bpm: B_3; pgfil: PG1_RQ_PDU; dtxu: BITSTRING; dtxd: BITSTRING; cell: CellID; lgch1: LOGICCH; lgch2: LOGICCH; lgch3: LOGICCH; lgch4: LOGICCH; lgch5: LOGICCH; lgch6: LOGICCH; lgch7: LOGICCH; lgch8: LOGICCH; lgch9: LOGICCH) |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | BOOLEAN                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                           |
| <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 style="margin-left: 40px;">NOTE: the types defined above are all the same, no real difference</p> <ul style="list-style-type: none"> <li>- '101'B activation for receiving only;</li> </ul> </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>- chcmbn: 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> </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 FACCH channel and SACCH4 or SACCH8 or SACCH, identifiers for subchannels of SDCCH4 or SDCCH8 or FACCH and SACCH4 or SACCH8 or SACCH 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:<br/> 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.<br/> Decode the 'chcmbn' (channel combination) parameter to determine the new channel type.<br/> If new channel = "C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCH4" (combined) or<br/> if new channel = "C_CBCH_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCH4" (combined + SMS) then re-use any existing</p> |                                                                                                                                                                                                                                                                                                                                                                                                           |

control channel configuration with same CellID.

If new channel = "C\_FCCH\_SCH\_BCCH\_CCCH" (non-combined) then use any combined, combined + SMS or non-combined control channel configuration with the same CellID.

If new channel = "C\_BCCH\_CCCH\_2", "C\_BCCH\_CCCH\_3" or "C\_BCCH\_CCCH\_4" (ccch-group) then re-use any existing ccch-group control channel configuration with the same CellID and the slot, or re-use any existing combined, combined + SMS with the same CellID.

If new channel = "C\_TCHF\_ACCHF\_1", "C\_TCHF\_ACCHF\_2", "C\_TCHH\_ACCHH\_1", "C\_TCHH\_ACCHH\_2" (traffic) or "C\_SDCCH8\_SACCHC8\_1", "C\_SDCCH8\_SACCHC8\_2", "C\_SDCCH8\_SACCHC8\_3" (dedicated) then re-use any existing traffic or dedicated channel with the same channel description.

**Detailed Comments:**

### Test Suite Operation Definition

**Operation Name:** OM\_ChMdModi(ch:LOGICCH; chmod: CHMOD)

**Result Type:** BOOLEAN

**Comments:**

#### Description

OM\_ChMdModi operation passes channel mode IE for channel 'ch' to lower layer emulator and requests the emulator to set the 'ch' to the mode 'chmod'. After the mode changed, it returns.

**Detailed Comments:**

### Test Suite Operation Definition

**Operation Name:** OM\_CphMdChg(ch:LOGICCH; cphmod: CPHMS; key:BITSTRING)

**Result Type:** BOOLEAN

**Comments:**

#### Description

OM\_CphMdChg operation passes ciphering parameters for channel 'ch' to lower layer and sets the lower layer emulator into a special operation mode in which lower layer starts the 3-step ciphering mode setting sequence when the next L3 message on the channel 'ch' arrives.

**Detailed Comments:**

### Test Suite Operation Definition

**Operation Name:** OM\_CphMd(ch:LOGICCH; cphmod: CPHMS; key:BITSTRING)

**Result Type:** BOOLEAN

**Comments:**

#### Description

OM\_CphMd operation passes ciphering parameters for channel 'ch' to lower layer and sets the channel 'ch' in the ciphering mode 'cphmod'. This operation puts the channel 'ch' into specified ciphering mode 'cphmod' immediately without the 3-step ciphering mode setting sequence.

**Detailed Comments:**

### Test Suite Operation Definition

**Operation Name:** OM\_ComingFn(ch:LOGICCH)

**Result Type:** FN

**Comments:**

#### Description

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

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

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | OM_Deactivate(ch1, ch2:LOGICCH)                                                                                                                                                                                                                                          |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | BOOLEAN                                                                                                                                                                                                                                                                  |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                          |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                          |
| <p>OM_Deactivate operation deactivates the logical channels 'ch1' and 'ch2', then returns TRUE.</p> <p>The ch1 can be a DCCH or a TCH, the ch2 is the associated SACCH.</p> <p>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.</p> <p>Deactivation of a TCH channel can be done by stopping transmission if it is non-BCCH.</p> <p>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..</p> |                                                                                                                                                                                                                                                                          |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <p>The TSO is called in<br/>           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,<br/>           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.</p> |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| <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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                 |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                 |
| <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".<br/>           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>.<br/>           If <math>31000 &lt; t &lt; 32024</math>, or <math>t &lt; 0</math> or <math>t &gt; 42431</math><br/>           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.</p> <p>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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                 |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Operation Name:</b>                                                                                                                                                                                           | OM_FreeResource(ch :LOGICCH)                                                                                                                                                                                                                                                                                                   |
| <b>Result Type:</b>                                                                                                                                                                                              | BOOLEAN                                                                                                                                                                                                                                                                                                                        |
| <b>Comments:</b>                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                |
| <p>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.</p> |                                                                                                                                                                                                                                                                                                                                |
| <b>Detailed Comments:</b>                                                                                                                                                                                        | <p>In some test cases (most of them are hanhover test cases) different channels are needed while the test goes on. the purpose of the operation is to reuse lower layer resources (e.g. transceivers), which have been allocated to the previous channel, for configing another channel required in the next testing step.</p> |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| <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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                      |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                      |
| <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.</p> <p>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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                      |

| <b>Test Suite Operation Definition</b>                                                                                                                                                    |                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <b>Operation Name:</b>                                                                                                                                                                    | OM_GetHoaccPara(ch:LOGICCH) |
| <b>Result Type:</b>                                                                                                                                                                       | L1HD                        |
| <b>Comments:</b>                                                                                                                                                                          |                             |
| <b>Description</b>                                                                                                                                                                        |                             |
| <p>OM_GetHoaccPara instructs the L 2 emulator to get the timing advance and power level of the handover access burst on channel 'ch' and return this value in the format of L 1 head.</p> |                             |
| <b>Detailed Comments:</b>                                                                                                                                                                 |                             |

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

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                            |                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                            | OM_LowerLayerFail(ch:LOGICCH) |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                               | BOOLEAN                       |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                  |                               |
| <b>Description</b>                                                                                                                                                                                                                                                                                |                               |
| <p>This operation is to force the lower layer failure, then it returns.</p> <p>The lower layer failure can be any one of layer 1 failures or layer 2 failures.</p> <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>                                                                                                                                                                                                                                                                         |                               |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                           |                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                           | OM_NoL2Ack(frmttype:L2FMTTYPE; i:INTEGER; ch: LOGICCH) |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                              | BOOLEAN                                                |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                 |                                                        |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                               |                                                        |
| <p>This operation sets the layer 2 emulator into a special operation mode then returns. In this special mode the layer 2 emulator shall not acknowledge the 'i'th occurrence of the L 2 frame which has the type 'frmttype' and the more data bit "M" = 0 on channel 'ch'. The layer 2 emulator automatically resumes normal operation after this L 2 frame.</p> |                                                        |
| <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                                                                                                                                                                                                                                                                     |                            |
| 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. |                            |
| <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                                                                                                                                                                                                                                                                                        |                                                     |
| 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.<br>In the specific mode on receiving a DISC on the channel 'ch', the L2 emulator |                                                     |
| <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> 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_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>                                                                                                     |                         |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                     |                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                     | OM_ResumUAforDISC(ch:LOGICCH)                       |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                                                        | BOOLEAN                                             |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                         |                                                     |
| <p>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.</p> <p>OM_ResumeUAforDISC cancels the effect of OM_NoUAforDISC, returning L2 on the channel 'ch' to normal operation in the multiple-frame established state.</p> <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. |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                           |                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <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. |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                               |                                                   |
| <p>The TSO makes the lower layers send the second SMSCB message at the same time as the MS is paged.</p> <p>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>                                                                                                                                                                                                                                                                                                                                        |                                                   |

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

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <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. |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                   |
| <p>The operation starts the reporting of received MEASUREMENT REPORT message to layer 3 emulator, then 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 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                   |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                   |                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| <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.                             |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                       |                                                                               |
| <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>                                                                                                                                                                                                                                                                                                                                                                |                                                                               |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <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. |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                   |
| <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>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                   |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <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. |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                   |
| <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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                   |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                           |                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                           | OO_ACMIncCHK(para:IA5String) |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                              | BOOLEAN                      |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                              |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |
| <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>                                                                                                                                                                                                                                                                                                                                                                                                                                        |                              |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                       |               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                       | OO_ACMReading |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                          | BOOLEAN       |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                             |               |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                           |               |
| <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>                                                                                                                                                                                                                                                                                                                                                    |               |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                       |               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                       | OO_ACMSetting |
| <b>Result Type:</b>                                                                                                                                                                                                                                          | BOOLEAN       |
| <b>Comments:</b>                                                                                                                                                                                                                                             |               |
| <b>Description</b>                                                                                                                                                                                                                                           |               |
| <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>                                                                                                                                                                                                                                    |               |

| <b>Test Suite Operation Definition</b>                                                                                                                    |              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| <b>Operation Name:</b>                                                                                                                                    | OO_AddPwrAmp |
| <b>Result Type:</b>                                                                                                                                       | BOOLEAN      |
| <b>Comments:</b>                                                                                                                                          |              |
| <b>Description</b>                                                                                                                                        |              |
| This operation requests (e.g. from the control console of the test system) the test operator to add power amplification at the Mobile Station under test. |              |
| After the operator finishes the action, he informs the test system and the operation returns with the value TRUE.                                         |              |
| <b>Detailed Comments:</b>                                                                                                                                 |              |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                          |              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                          | OO_AltIndCHK |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                             | BOOLEAN      |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                |              |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                              |              |
| 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>                                                                                                                                                                                                                                                                                                                                                                                                                       |              |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                        |                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                        | OO_CalledNumCHK |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                           | BOOLEAN         |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |
| 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>                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                       |                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                       | OO_CalledPtyNumCHK(num:CDPN) |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                          | BOOLEAN                      |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                           |                              |
| 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>                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                            |                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                            | OO_CheckAllISMPresentBut4th |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                               | BOOLEAN                     |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                  |                             |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                |                             |
| 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>                                                                                                                                                                                                                                                                                                                         |                             |



| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | OO_CheckCBSMReceived(NumbOfIA5chara: INTEGER; msg:SMSCBpack) |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | BOOLEAN                                                      |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                              |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                              |
| <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,<br/>           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 subclause 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                              |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                 |                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                 | OO_CheckMCEFOOnSIM |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                    | BOOLEAN            |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                       |                    |
| <b>Description</b>                                                                                                                                                                                                                                                                                                     |                    |
| <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>                                                                                                                                                                                                                                                                                              |                    |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                   |                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                   | OO_CheckMCEFOOnSIMUnset |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                      | BOOLEAN                 |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                         |                         |
| <b>Description</b>                                                                                                                                                                                                                                                                                                       |                         |
| <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>                                                                                                                                                                                                                                                                                                |                         |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | OO_CheckMessageDisplayed(NumbOfIA5chara:INTEGER; msg:OCTETSTRING) |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | BOOLEAN                                                           |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                   |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                   |
| <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),<br/>           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 subclause 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                   |

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

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                    |                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                    | OO_ConnectSIMSimulator |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                       | BOOLEAN                |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                          |                        |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                        |                        |
| 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.<br>For the contents of the SIM simulator the operator refers to the initial conditions of the test case acc. GSM 11.10, clause 34.2.3.3.<br>After the operator finishes the action, he informs the test system and the operation returns with the value TRUE. |                        |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                 |                        |

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

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

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                        |
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| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | OO_DisplaySMAndSendReplySM(n, NumOfIA5chara: INTEGER; msg:OCTETSTRING) |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | OCTETSTRING                                                            |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                        |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                        |
| 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.<br>Then the TSO asks the operator to send a reply short message from the mobile.<br>After the operator finishes the action, the operation returns with the message contents sent in OCTETSTRING.<br>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 subclause 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                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                    |
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| <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                                                                                                                                                                                                                                                  |                        |
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| <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.<br>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                                                                                                                                                                                                                                                                                                                   |                              |
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| <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.<br>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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                      |
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| <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.<br><br>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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                               |
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| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | OO_IFsetup_BS2xorBS3x_MO(srv:SERVICES; itc, sacp:B_3; 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 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.</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_Async300            Basic Service 21, Asynchronous 300 bps</li> <li>- C_Async1200         Basic Service 22, Asynchronous 1.2 kbps</li> <li>- C_Async120075      Basic Service 23, Asynchronous 1200/75 bps</li> <li>- C_Async2400         Basic Service 24, Asynchronous 2.4 kbps</li> <li>- C_Async4800         Basic Service 25, Asynchronous 4.8 kbps</li> <li>- C_Async9600         Basic Service 26, Asynchronous 9.6 kbps</li> <li>- C_Sync1200           Basic Service 31, Synchronous 1.2 kbps</li> <li>- C_Sync2400           Basic Service 32, Synchronous 2.4 kbps</li> <li>- C_Sync4800           Basic Service 33, Synchronous 4.8 kbps</li> <li>- C_Sync9600           Basic Service 34, Synchronous 9.6 kbps</li> </ul> <p>2) itc ----- information transfer capability</p> <ul style="list-style-type: none"> <li>- '001'B                unrestricted digital information</li> <li>- '010'B                3.1 kHz audio, ex PLMN</li> </ul> <p>3) sacp ---- signalling access protocol</p> <ul style="list-style-type: none"> <li>- '001'B                I.440/450</li> <li>- '010'B                X.21</li> <li>- '101'B                X.28 - non dedicated PAD</li> <li>- '110'B                X.32</li> </ul> <p>4) ce ----- connection element</p> <ul style="list-style-type: none"> <li>- '00'B                 transparent</li> <li>- '01'B                 non transparent</li> </ul> <p>5) 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 BS21, BS22, BS23, BS24, BS25, BS26, BS31, BS32, BS33, BS34           |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | OO_IFsetup_BS4x_MO(srv:SERVICES; 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 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.</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_PAD300           Basic Service 41, PAD access 300 bps</li> <li>- C_PAD1200        Basic Service 42, PAD access 1.2 kbps</li> <li>- C_PAD120075     Basic Service 43, PAD access 1200/75 bps</li> <li>- C_PAD2400        Basic Service 44, PAD access 2.4 kbps</li> <li>- C_PAD4800        Basic Service 45, PAD access 4.8 kbps</li> <li>- C_PAD9600        Basic Service 46, PAD access 9.6 kbps</li> </ul> <p>2) ce ----- connection element</p> <ul style="list-style-type: none"> <li>- '00'B             transparent</li> <li>- '01'B             non transparent</li> </ul> <p>3) 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 BS41, BS42, BS43, BS44, BS45, BS46              |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | OO_IFsetup_BS5x_MO(srv:SERVICES; ur:B_4; 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 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.</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_Packet2400     Basic Service 51, Packet access 2.4 kbps</li> <li>- C_Packet4800     Basic Service 52, Packet access 4.8 kbps</li> <li>- C_Packet9600     Basic Service 53, Packet access 9.6 kbps</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) 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 BS51, BS52, BS53                                |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | OO_IFsetup_BS61orBS81_MO(srv:SERVICES; ur:B_4; sa:B_1; ce:B_2; rate:IA5String) |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | BOOLEAN                                                                        |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                |
| <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 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.</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_AltSpchData      Basic Service 61, Alternatie Speech/data</li> <li>- C_SpchData         Basic Service 81, Speech followed by data</li> </ul> <p>2) ur ----- user rate</p> <ul style="list-style-type: none"> <li>- '0001'B            300 bit/s</li> <li>- '0010'B            1200 bit/s</li> <li>- '0111'B            1200/75 bit/s</li> <li>- '0011'B            2400 bit/s</li> <li>- '0100'B            4800 bit/s</li> <li>- '0101'B            9600 bit/s</li> </ul> <p>3) sa ----- synchronous/asynchronous</p> <ul style="list-style-type: none"> <li>- '0'B                synchronous</li> <li>- '1'B                asynchronous</li> </ul> <p>4) ce ----- connection element</p> <ul style="list-style-type: none"> <li>- '00'B              transparent</li> <li>- '01'B              non transparent</li> </ul> <p>5) 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 BS61 and BS81                                                         |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| <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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                  |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                  |
| <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                                           |

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

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | OO_IFsetup_BS3x_MT(srv:SERVICES; itc, sacp:B_3) |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | BOOLEAN                                         |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                 |
| <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                 |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | OO_IFsetup_BS61orBS81_MT(srv:SERVICES; ur:B_4; sa:B_1) |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | BOOLEAN                                                |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                        |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                        |
| <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                                 |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | OO_IFsetup_TS6x_MT(srv:SERVICES; ur:B_4) |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | BOOLEAN                                  |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                          |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                          |
| <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                   |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | OO_InCallModi(srv:SERVICES) |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | BOOLEAN                     |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                             |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                             |
| <p>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.</p> <p>The possible service values include (see also test suite constant declarations):</p> <p>1) Teleservices</p> <ul style="list-style-type: none"> <li>- C_Telephony</li> <li>- C_EmgCall</li> <li>- C_AltSpchFax</li> <li>- C_AutoFax</li> </ul> <p>2) Bearer services</p> <ul style="list-style-type: none"> <li>- C_Async300, C_Async1200, C_Async120075, C_Async2400, C_Async4800, C_Async9600</li> <li>- C_Sync1200, C_Sync2400, C_Sync4800, C_Sync9600</li> <li>- C_PAD300, C_PAD1200, C_PAD120075, C_PAD2400, C_PAD4800, C_PAD9600</li> <li>- C_Packet2400, C_Packet4800, C_Packet9600</li> <li>- C_AltSpchData</li> <li>- C_SpchData</li> </ul> |                             |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                             |



| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                           |               |      |      |             |      |      |                |      |      |             |      |      |              |      |      |               |      |      |                 |      |      |               |      |      |               |      |      |               |      |      |              |      |      |              |      |      |              |      |      |              |      |      |            |      |      |             |      |      |               |      |      |             |      |      |             |      |      |             |      |      |                |      |      |                |      |      |                |      |      |                 |      |      |              |      |      |
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| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | OO_InitCall(srv:SERVICES) |               |      |      |             |      |      |                |      |      |             |      |      |              |      |      |               |      |      |                 |      |      |               |      |      |               |      |      |               |      |      |              |      |      |              |      |      |              |      |      |              |      |      |            |      |      |             |      |      |               |      |      |             |      |      |             |      |      |             |      |      |                |      |      |                |      |      |                |      |      |                 |      |      |              |      |      |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | BOOLEAN                   |               |      |      |             |      |      |                |      |      |             |      |      |              |      |      |               |      |      |                 |      |      |               |      |      |               |      |      |               |      |      |              |      |      |              |      |      |              |      |      |              |      |      |            |      |      |             |      |      |               |      |      |             |      |      |             |      |      |             |      |      |                |      |      |                |      |      |                |      |      |                 |      |      |              |      |      |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |               |      |      |             |      |      |                |      |      |             |      |      |              |      |      |               |      |      |                 |      |      |               |      |      |               |      |      |               |      |      |              |      |      |              |      |      |              |      |      |              |      |      |            |      |      |             |      |      |               |      |      |             |      |      |             |      |      |             |      |      |                |      |      |                |      |      |                |      |      |                 |      |      |              |      |      |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |               |      |      |             |      |      |                |      |      |             |      |      |              |      |      |               |      |      |                 |      |      |               |      |      |               |      |      |               |      |      |              |      |      |              |      |      |              |      |      |              |      |      |            |      |      |             |      |      |               |      |      |             |      |      |             |      |      |             |      |      |                |      |      |                |      |      |                |      |      |                 |      |      |              |      |      |
| <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> <p>1) Teleservices</p> <table border="0"> <tr><td>- C_Telephony</td><td>----</td><td>TS11</td></tr> <tr><td>- C_EmgCall</td><td>----</td><td>TS12</td></tr> <tr><td>- C_AltSpchFax</td><td>----</td><td>TS61</td></tr> <tr><td>- C_AutoFax</td><td>----</td><td>TS62</td></tr> </table> <p>2) Bearer services</p> <table border="0"> <tr><td>- C_Async300</td><td>----</td><td>BS21</td></tr> <tr><td>- C_Async1200</td><td>----</td><td>BS22</td></tr> <tr><td>- C_Async120075</td><td>----</td><td>BS23</td></tr> <tr><td>- C_Async2400</td><td>----</td><td>BS24</td></tr> <tr><td>- C_Async4800</td><td>----</td><td>BS25</td></tr> <tr><td>- C_Async9600</td><td>----</td><td>BS26</td></tr> <tr><td>- C_Sync1200</td><td>----</td><td>BS31</td></tr> <tr><td>- C_Sync2400</td><td>----</td><td>BS32</td></tr> <tr><td>- C_Sync4800</td><td>----</td><td>BS33</td></tr> <tr><td>- C_Sync9600</td><td>----</td><td>BS34</td></tr> <tr><td>- C_PAD300</td><td>----</td><td>BS41</td></tr> <tr><td>- C_PAD1200</td><td>----</td><td>BS42</td></tr> <tr><td>- C_PAD120075</td><td>----</td><td>BS43</td></tr> <tr><td>- C_PAD2400</td><td>----</td><td>BS44</td></tr> <tr><td>- C_PAD4800</td><td>----</td><td>BS45</td></tr> <tr><td>- C_PAD9600</td><td>----</td><td>BS46</td></tr> <tr><td>- C_Packet2400</td><td>----</td><td>BS51</td></tr> <tr><td>- C_Packet4800</td><td>----</td><td>BS52</td></tr> <tr><td>- C_Packet9600</td><td>----</td><td>BS53</td></tr> <tr><td>- C_AltSpchData</td><td>----</td><td>BS61</td></tr> <tr><td>- C_SpchData</td><td>----</td><td>BS81</td></tr> </table> |                           | - C_Telephony | ---- | TS11 | - C_EmgCall | ---- | TS12 | - C_AltSpchFax | ---- | TS61 | - C_AutoFax | ---- | TS62 | - 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 |
| - C_Telephony                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ----                      | TS11          |      |      |             |      |      |                |      |      |             |      |      |              |      |      |               |      |      |                 |      |      |               |      |      |               |      |      |               |      |      |              |      |      |              |      |      |              |      |      |              |      |      |            |      |      |             |      |      |               |      |      |             |      |      |             |      |      |             |      |      |                |      |      |                |      |      |                |      |      |                 |      |      |              |      |      |
| - C_EmgCall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ----                      | TS12          |      |      |             |      |      |                |      |      |             |      |      |              |      |      |               |      |      |                 |      |      |               |      |      |               |      |      |               |      |      |              |      |      |              |      |      |              |      |      |              |      |      |            |      |      |             |      |      |               |      |      |             |      |      |             |      |      |             |      |      |                |      |      |                |      |      |                |      |      |                 |      |      |              |      |      |
| - C_AltSpchFax                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ----                      | TS61          |      |      |             |      |      |                |      |      |             |      |      |              |      |      |               |      |      |                 |      |      |               |      |      |               |      |      |               |      |      |              |      |      |              |      |      |              |      |      |              |      |      |            |      |      |             |      |      |               |      |      |             |      |      |             |      |      |             |      |      |                |      |      |                |      |      |                |      |      |                 |      |      |              |      |      |
| - C_AutoFax                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ----                      | TS62          |      |      |             |      |      |                |      |      |             |      |      |              |      |      |               |      |      |                 |      |      |               |      |      |               |      |      |               |      |      |              |      |      |              |      |      |              |      |      |              |      |      |            |      |      |             |      |      |               |      |      |             |      |      |             |      |      |             |      |      |                |      |      |                |      |      |                |      |      |                 |      |      |              |      |      |
| - 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           |               |      |      |             |      |      |                |      |      |             |      |      |              |      |      |               |      |      |                 |      |      |               |      |      |               |      |      |               |      |      |              |      |      |              |      |      |              |      |      |              |      |      |            |      |      |             |      |      |               |      |      |             |      |      |             |      |      |             |      |      |                |      |      |                |      |      |                |      |      |                 |      |      |              |      |      |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                          |                  |
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| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                          | OO_InitNonCallSS |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                             | BOOLEAN          |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                |                  |
| <b>Description</b>                                                                                                                                                                                                                                                                                              |                  |
| <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>                                                                                                                                                                                                                                                                                       |                  |

| <b>Test Suite Operation Definition</b>                                                                                                                                    |                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| <b>Operation Name:</b>                                                                                                                                                    | OO_InitSS(action: IA5String) |
| <b>Result Type:</b>                                                                                                                                                       | BOOLEAN                      |
| <b>Comments:</b>                                                                                                                                                          |                              |
| <b>Description</b>                                                                                                                                                        |                              |
| 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>                                                                                                                                                 |                              |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |
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| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | OO_InServiceCHK |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BOOLEAN         |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |
| 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |

| <b>Test Suite Operation Definition</b>                                                                                                |         |
|---------------------------------------------------------------------------------------------------------------------------------------|---------|
| <b>Operation Name:</b>                                                                                                                | OO_Key  |
| <b>Result Type:</b>                                                                                                                   | BOOLEAN |
| <b>Comments:</b>                                                                                                                      |         |
| <b>Description</b>                                                                                                                    |         |
| 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>                                                                                                             |         |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                 |             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                 | OO_MptyCall |
| <b>Result Type:</b>                                                                                                                                                                                                                                                    | BOOLEAN     |
| <b>Comments:</b>                                                                                                                                                                                                                                                       |             |
| <b>Description</b>                                                                                                                                                                                                                                                     |             |
| 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>                                                                                                                                                                                                                                              |             |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                              |                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| <b>Operation Name:</b>                                                                                                                                                                                              | OO_MSSetupStoreClass1SMInMEMemory |
| <b>Result Type:</b>                                                                                                                                                                                                 | BOOLEAN                           |
| <b>Comments:</b>                                                                                                                                                                                                    |                                   |
| <b>Description</b>                                                                                                                                                                                                  |                                   |
| This operation requests (e.g. from the control console of the test system) the test operator to setup the MS under test to store class 1 SM in the ME memory (by way of MMI, as described in PICS/PIXIT statement). |                                   |
| After the operator finishes the action, he informs the test system and the operation returns with the value TRUE.                                                                                                   |                                   |
| <b>Detailed Comments:</b>                                                                                                                                                                                           |                                   |

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

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

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

| <b>Test Suite Operation Definition</b>                                                                                                                                                                       |            |
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| <b>Operation Name:</b>                                                                                                                                                                                       | OO_PowerUp |
| <b>Result Type:</b>                                                                                                                                                                                          | BOOLEAN    |
| <b>Comments:</b>                                                                                                                                                                                             |            |
| <b>Description</b>                                                                                                                                                                                           |            |
| 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>                                                                                                                                                                                    |            |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                         |              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| <b>Operation Name:</b>                                                                                                                                                                                         | OO_PowerDown |
| <b>Result Type:</b>                                                                                                                                                                                            | BOOLEAN      |
| <b>Comments:</b>                                                                                                                                                                                               |              |
| <b>Description</b>                                                                                                                                                                                             |              |
| 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>                                                                                                                                                                                      |              |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                              |                          |
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| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                              | OO_PressKeyWhenInService |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                 | BOOLEAN                  |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                    |                          |
| <b>Description</b>                                                                                                                                                                                                                                                                                                  |                          |
| 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.<br>Working with OO_Key together, the TSO displays a prompt to the test operator and then immediately returns. |                          |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                           |                          |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                  |
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| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | OO_RecallAndDisplaySM(NumbOfIA5chara: INTEGER; msg: OCTETSTRING) |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | BOOLEAN                                                          |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                  |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                  |
| 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<br>TRUE: if SM can be recalled and displayed correctly in comparison with the 'msg',<br>FALSE: if SM can not be recalled or displayed, or displayed incorrectly in comparison with the 'msg'.<br>The TSO needs to convert the 'msg' into IA5 string according to the packing character rules specified in the subclause 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                  |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                |                |
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| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                | OO_RemoveOneSM |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                   | BOOLEAN        |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                      |                |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                    |                |
| 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>                                                                                                                                                                                                                                                                                                             |                |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                 |               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                 | OO_RemvPwrAmp |
| <b>Result Type:</b>                                                                                                                                                                                                                                    | BOOLEAN       |
| <b>Comments:</b>                                                                                                                                                                                                                                       |               |
| <b>Description</b>                                                                                                                                                                                                                                     |               |
| 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>                                                                                                                                                                                                                              |               |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                 |                |
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| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                 | OO_RFoutputCHK |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                    | BOOLEAN        |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                       |                |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                     |                |
| 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>                                                                                                                                                                                                                                                                                                                                                                                                              |                |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                      |                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                      | OO_SelPLMN(par_plmn:OCTETSTRING) |
| <b>Result Type:</b>                                                                                                                                                                                                         | BOOLEAN                          |
| <b>Comments:</b>                                                                                                                                                                                                            |                                  |
| <b>Description</b>                                                                                                                                                                                                          |                                  |
| 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>                                                                                                                                                                                                   |                                  |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                       |                       |
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| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                       | OO_SendMOShortMessage |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                          | BOOLEAN               |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                             |                       |
| <b>Description</b>                                                                                                                                                                                                                                                                                                           |                       |
| 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.<br>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. |                       |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                                    |                       |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                    |                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                    | OO_SendSMSCOMMANDDel |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                       | BOOLEAN              |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                          |                      |
| <b>Description</b>                                                                                                                                                                                                                                                                                        |                      |
| 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. |                      |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                 |                      |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                 |                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                 | OO_SendSMSCOMMANDEnq |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                    | BOOLEAN              |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                       |                      |
| <b>Description</b>                                                                                                                                                                                                                                                                                     |                      |
| 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. |                      |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                              |                      |

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

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                     |                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                     | OO_ShortKeyDepr(ch:IA5String) |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                        | BOOLEAN                       |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                           |                               |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                         |                               |
| 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>                                                                                                                                                                                                                                                                                                                                                  |                               |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                 |           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                 | OO_SIMIns |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                    | BOOLEAN   |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                       |           |
| <b>Description</b>                                                                                                                                                                                                                                                                                                     |           |
| 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>                                                                                                                                                                                                                                                                                              |           |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                   |            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                   | OO_SIM2Ins |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                      | BOOLEAN    |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                         |            |
| <b>Description</b>                                                                                                                                                                                                                                                                                                       |            |
| 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>                                                                                                                                                                                                                                                                                                |            |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                 |            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                 | OO_SIM3Ins |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                    | BOOLEAN    |
| <b>Comments:</b>                                                                                                                                                                                                                                                                       |            |
| <b>Description</b>                                                                                                                                                                                                                                                                     |            |
| 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>                                                                                                                                                                                                                                                              |            |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                 |           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                 | OO_SIMRmv |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                    | BOOLEAN   |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                       |           |
| <b>Description</b>                                                                                                                                                                                                                                                                                                     |           |
| 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>                                                                                                                                                                                                                                                                                              |           |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                            |                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                            | OO_SIMSimulAttIndOK |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                               | BOOLEAN             |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                  |                     |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                |                     |
| 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.<br>Attempt indicated: TRUE<br>Attempt NOT indicated: FALSE |                     |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                                                         |                     |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                        |                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                        | OO_SIMSimulAttIndMemProblem |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                           | BOOLEAN                     |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                              |                             |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                            |                             |
| 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.<br>Attempt indicated: TRUE<br>Attempt NOT indicated: FALSE |                             |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                                                                     |                             |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                       |                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                       | OO_SSresultCHK(svc:INTEGER) |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                          | BOOLEAN                     |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                             |                             |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                           |                             |
| 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>                                                                                                                                                                                                                                                                                                                                                                                                                    |                             |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                          |             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                          | OO_SwitchOn |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                             | BOOLEAN     |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                |             |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                              |             |
| 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>                                                                                                                                                                                                                                                                                                                                       |             |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                            |              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                            | OO_SwitchOff |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                               | BOOLEAN      |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                  |              |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                |              |
| 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>                                                                                                                                                                                                                                                                                                                                         |              |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | OO_TCHThroConnCHK |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | BOOLEAN           |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |
| 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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                     |             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                     | OO_TermCall |
| <b>Result Type:</b>                                                                                                                                                                                                                                                        | BOOLEAN     |
| <b>Comments:</b>                                                                                                                                                                                                                                                           |             |
| <b>Description</b>                                                                                                                                                                                                                                                         |             |
| 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>                                                                                                                                                                                                                                                  |             |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                  |                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                  | OO_TguardTimeOut |
| <b>Result Type:</b>                                                                                                                                                                                                                     | BOOLEAN          |
| <b>Comments:</b>                                                                                                                                                                                                                        |                  |
| <b>Description</b>                                                                                                                                                                                                                      |                  |
| 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>                                                                                                                                                                                                               |                  |

| <b>Test Suite Operation Definition</b>                                                                                                                                                                                                                                                                                                                                                                                          |                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>Operation Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                          | OO_ToneStopCHK |
| <b>Result Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                             | BOOLEAN        |
| <b>Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                |                |
| <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                              |                |
| This operation first requests (e.g. from the control console of the test system) the test operator to check whether the MS stops the tone generation. If the operator informs (e.g. from the control console of the test system) the test system that the MS does not stop tone generation, the operation returns FALSE. If the operator informs the test system that the MS stops tone generation, the operation returns TRUE. |                |
| Definition of "tone generation":                                                                                                                                                                                                                                                                                                                                                                                                |                |
| -During MO call: MS generates alerting tone/presents inband information sent by the network.                                                                                                                                                                                                                                                                                                                                    |                |
| -During MT call: MS generates ringing tone.                                                                                                                                                                                                                                                                                                                                                                                     |                |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                       |                |



**Test suite parameter declarations**

| <b>Test Suite Parameter Declarations</b> |         |                         |                                                                |
|------------------------------------------|---------|-------------------------|----------------------------------------------------------------|
| Parameter Name                           | Type    | PICS/PIXIT Ref          | Comments                                                       |
| TSPC_24DataF                             | BOOLEAN | PICS Table A.25 Item 12 | 2.4 k full rate data mode supported                            |
| 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                            |
| 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 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 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  | half rate data supported                                       |
| TSPC_HalfRateSpeech                      | BOOLEAN | PICS Table A.25 Item 3  | half rate speech mode supported                                |
| 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                               |
| 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  | AOCC SS supported                                              |
| TSPC_Serv_SS_BAIC                        | BOOLEAN | PICS Table A.5 Item 18  | BAIC SS supported                                              |
| TSPC_Serv_SS_BI                          | BOOLEAN | PICS                    | BI SS supported                                                |

|                       |         |                         |                                                   |
|-----------------------|---------|-------------------------|---------------------------------------------------|
| TSPC_Serv_SS_BICRoam  | BOOLEAN | PICS Table A.5 Item 19  | BICRoam SS supported                              |
| TSPC_Serv_SS_BAOC     | BOOLEAN | PICS Table A.5 Item 15  | BAOC SS supported                                 |
| TSPC_Serv_SS_BOIC     | BOOLEAN | PICS Table A.5 Item 16  | BOIC SS supported                                 |
| TSPC_Serv_SS_BOICexHC | BOOLEAN | PICS Table A.5 Item 17  | BOICExHC SS supported                             |
| TSPC_Serv_SS_CFB      | BOOLEAN | PICS Table A.5 Item 6   | CFB supported                                     |
| TSPC_Serv_SS_CFNry    | BOOLEAN | PICS Table A.5 Item 7   | CFNry supported                                   |
| TSPC_Serv_SS_CFNrc    | BOOLEAN | PICS Table A.5 Item 8   | CFNrc supported                                   |
| TSPC_Serv_SS_CFU      | BOOLEAN | PICS Table A.5 Item 5   | CFU 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                           |
| 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             |
| 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           |
| TSPX_AltNb            | BOOLEAN | PIXIT                   | use alternative neighbour cells                   |

|                     |         |       |                                                                                                                                                                                  |
|---------------------|---------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TSPX_TE_stopbit     | B_1     | PIXIT | description. default : FALSE<br>TE conf. number stop bits. default value : '0'B, 1 bit                                                                                           |
| TSPX_TE_databit     | B_1     | PIXIT | TE conf. number data bits. default value : '1'B, 8 bits                                                                                                                          |
| TSPX_TE_FLCTL       | FLWCNTL | PIXIT | TE flow control. default : 0, outband flow control                                                                                                                               |
| TSPX_TE_parity      | B_3     | PIXIT | TE conf. parity. default : '001'B, no parity                                                                                                                                     |
| TSPX_BS_21_its1     | B_3     | PIXIT | its value supported for BS21. default value : '001'B, UDI                                                                                                                        |
| TSPX_BS_21_more_its | BOOLEAN | PIXIT | more than one its value supported by BS21. default value : FALSE, only one its                                                                                                   |
| TSPX_BS_21_T_NT     | BOOLEAN | PIXIT | both T and NT supported by BS21. default value : FALSE, not support both transparent and non transparent modes                                                                   |
| TSPX_BS_21_ce       | B_2     | PIXIT | ce 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 | sacp value used in MO call. default value : '001'B, 1440/450                                                                                                                     |
| TSPX_BS_21_its2     | B_3     | PIXIT | other its value supported by BS21, it shall be differenet from the previous one if the answer to TSPX_BS_21_more_its is TRUE. default value : '001'B, UDI                        |
| TSPX_BS_22_its1     | B_3     | PIXIT | its value supported by BS22. default value : '010'B, 3.1kHz audio, exPLMN                                                                                                        |
| TSPX_BS_22_more_its | BOOLEAN | PIXIT | more than one its value supported by BS22. default value : FALSE, only one its                                                                                                   |
| TSPX_BS_22_T_NT     | BOOLEAN | PIXIT | both T and NT supported by BS22. default value : FALSE, not support both transparent and non transparent modes                                                                   |
| TSPX_BS_22_ce       | B_2     | PIXIT | ce 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 | sacp value used in MO call. default value : '001'B, 1440/450                                                                                                                     |
| TSPX_BS_22_its2     | B_3     | PIXIT | other its value supported by BS22, it shall be differenet from the previous one if the answer to TSPX_BS_22_more_its is TRUE. default value : '010'B, 3.1kHz audio, exPLMN       |
| TSPX_BS_23_its      | B_3     | PIXIT | its value supported by BS23. default value : '010'B, 3.1kHz audio, exPLMN                                                                                                        |
| TSPX_BS_23_T_NT     | BOOLEAN | PIXIT | both T and NT supported for BS23. default value : FALSE, not support both transparent and non transparent modes                                                                  |
| TSPX_BS_23_ce       | B_2     | PIXIT | ce value used in MO call. default value : '00'B, transparent                                                                                                                     |
| TSPX_BS_23_sacp     | B_3     | PIXIT | sacp value used in MO call. default value : '001'B, 1440/450                                                                                                                     |
| TSPX_BS_24_its1     | B_3     | PIXIT | its value supported by BS24. default value : '010'B, 3.1kHz audio, exPLMN                                                                                                        |
| TSPX_BS_24_more_its | BOOLEAN | PIXIT | more than one its value supported by BS24. default value : FALSE,                                                                                                                |

|                      |         |       |                                                                                                                                                                             |
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| TSPX_BS_24_T_NT      | BOOLEAN | PIXIT | only one itc<br>both T and NT supported by BS24. default value : FALSE, not support both transparent and non transparent modes                                              |
| TSPX_BS_24_ce        | B_2     | PIXIT | ce 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 | sacp value used in MO call. default value : '001'B, I440/450                                                                                                                |
| TSPX_BS_24_itc2      | B_3     | PIXIT | other itc value supported by BS24, it shall be differenet 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 | itc value supported by BS25. default value : '001'B, UDI                                                                                                                    |
| TSPX_BS_25_more_itc  | BOOLEAN | PIXIT | more than one itc value supported by BS25. default value : FALSE, only one itc                                                                                              |
| TSPX_BS_25_T_NT      | BOOLEAN | PIXIT | both T and NT supported by BS25. default value : FALSE, not support both transparent and non transparent modes                                                              |
| TSPX_BS_25_ce        | B_2     | PIXIT | ce 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 | sacp value used in MO call. default value : '001'B, I440/450                                                                                                                |
| TSPX_BS_25_itc2      | B_3     | PIXIT | other itc value supported by BS25, it shall be differenet from the previous one if the answer to TSPX_BS_25_more_itc is TRUE. default value : '001'B, UDI                   |
| TSPX_BS_26_itc1      | B_3     | PIXIT | itc value supported by BS26. default value : '010'B, 3.1kHz audio, exPLMN                                                                                                   |
| TSPX_BS_26_more_itc  | BOOLEAN | PIXIT | more than one itc value supported by BS26. default value : FALSE, only one itc                                                                                              |
| TSPX_BS_26_T_NT      | BOOLEAN | PIXIT | both T and NT supported by BS26. default value : FALSE, not support both transparent and non transparent modes                                                              |
| TSPX_BS_26_ce        | B_2     | PIXIT | ce 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 |
| TSPX_BS_26_sacp      | B_3     | PIXIT | sacp value used in MO call. default value : '001'B, I440/450                                                                                                                |
| TSPX_BS_26_itc2      | B_3     | PIXIT | other itc value supported by BS26, it shall be differenet 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 | more than one itc value supported by BS31. default value : FALSE, only one itc                                                                                              |
| TSPX_BS_31_more_sacp | BOOLEAN | PIXIT | more than one sacp value supported by BS31. default value : FALSE, only one sacp                                                                                            |

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| TSPX_BS_31_itc1      | B_3     | PIXIT | itc value supported by BS31. default value : '001'B, UDI                                                                                                                   |
| TSPX_BS_31_sacp1     | B_3     | PIXIT | sacp value supported by BS31. default value : '001'B, I440/450                                                                                                             |
| TSPX_BS_31_itc2      | B_3     | PIXIT | other itc value supported by BS31, it shall be differenet from the previous one if the answer to TSPX_BS_31_more_itc is TRUE. default value : '001'B, UDI                  |
| TSPX_BS_31_sacp2     | B_3     | PIXIT | other sacp value supported by BS31, it shall be differenet from the previous one if the answer to TSPX_BS_31_more_sacp is TRUE. default value : '001'B, I440/450           |
| TSPX_BS_32_itc1      | B_3     | PIXIT | itc value supported by BS32. default value : '010'B, 3.1kHz audio, exPLMN                                                                                                  |
| TSPX_BS_32_more_itc  | BOOLEAN | PIXIT | more than one itc value supported by BS32. default value : FALSE, only one itc                                                                                             |
| TSPX_BS_32_more_sacp | BOOLEAN | PIXIT | more than one sacp value supported by BS32. default value : FALSE, only one sacp                                                                                           |
| TSPX_BS_32_sacp1     | B_3     | PIXIT | sacp value supported by BS32. default value : '110'B, X.32                                                                                                                 |
| TSPX_BS_32_X32_T_NT  | BOOLEAN | PIXIT | BS 32 both T and NT supported for X32 3.1kHz. default value : FALSE, not support both transparent and non transparent modes                                                |
| TSPX_BS_32_X32_ce    | B_2     | PIXIT | if the answer to TSPX_BS_32_X32_T_NT is FALSE, the manufacturer must precise which mode is supported by the MS. default value : '01'B, non transparent                     |
| TSPX_BS_32_itc2      | B_3     | PIXIT | other itc value supported by BS32, it shall be differenet 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 | other sacp value supported by BS32, it shall be differenet from the previous one if the answer to TSPX_BS_32_more_sacp is TRUE. default value : '110'B, X.32               |
| TSPX_BS_33_itc1      | B_3     | PIXIT | itc value supported by BS33. default value : '001'B, UDI                                                                                                                   |
| TSPX_BS_33_more_itc  | BOOLEAN | PIXIT | more than one itc value supported by BS33. default value : FALSE, only one itc                                                                                             |
| TSPX_BS_33_more_sacp | BOOLEAN | PIXIT | more than one sacp value supported by BS33. default value : FALSE, only one sacp                                                                                           |
| TSPX_BS_33_sacp1     | B_3     | PIXIT | sacp value supported by BS33. default value : '010'B, X.21                                                                                                                 |
| TSPX_BS_33_X32_T_NT  | BOOLEAN | PIXIT | BS 33 both T and NT supported for X32 3.1kHz. default value : FALSE, not support both transparent and non transparent modes                                                |
| TSPX_BS_33_X32_ce    | B_2     | PIXIT | if the answer to TSPX_BS_33_X32_T_NT is FALSE, the manufacturer must precise which mode is supported by the MS. default value : '00'B, transparent                         |
| TSPX_BS_33_itc2      | B_3     | PIXIT | other itc value supported by BS32, it shall be differenet from the previous one if the answer to TSPX_BS_33_more_itc is TRUE. default value : '001'B, UDI                  |

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| TSPX_BS_33_sacp2     | B_3     | PIXIT | other sacp value supported by BS33, it shall be differenet from the previous one if the answer to TSPX_BS_33_more_sacp is TRUE. default value : '010'B, X.21               |
| TSPX_BS_34_itc1      | B_3     | PIXIT | itc value supported by BS34. default value : '010'B, 3.1kHz audio, exPLMN                                                                                                  |
| TSPX_BS_34_more_itc  | BOOLEAN | PIXIT | more than one itc value supported by BS34. default value : FALSE, only one itc                                                                                             |
| TSPX_BS_34_more_sacp | BOOLEAN | PIXIT | more than one sacp value supported by BS34. default value : FALSE, only one sacp                                                                                           |
| TSPX_BS_34_sacp1     | B_3     | PIXIT | sacp value supported by BS34. default value : '001'B, I440/450                                                                                                             |
| TSPX_BS_34_X32_T_NT  | BOOLEAN | PIXIT | BS 34 both T and NT supported for X32 3.1kHz. default value : FALSE, not support both transparent and non transparent modes                                                |
| TSPX_BS_34_X32_ce    | B_2     | PIXIT | 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 | other itc value supported by BS34, it shall be differenet 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 | other sacp value supported by BS34, it shall be differenet from the previous one if the answer to TSPX_BS_34_more_sacp is TRUE. default value : '001'B, I440/450           |
| TSPX_BS_41_T_NT      | BOOLEAN | PIXIT | BS41 both T and NT supported . default value : FALSE, not support both                                                                                                     |
| TSPX_BS_41_ce        | B_2     | PIXIT | ce value used in BS41 MO call. default value : '00'B, transparent                                                                                                          |
| TSPX_BS_42_T_NT      | BOOLEAN | PIXIT | BS42 both T and NT supported . default value : FALSE, not support both transparent and non transparent modes                                                               |
| TSPX_BS_42_ce        | B_2     | PIXIT | ce value used in BS42 MO call. default value : '010'B, non transparent                                                                                                     |
| TSPX_BS_43_T_NT      | BOOLEAN | PIXIT | BS43 both T and NT supported . default value : FALSE, not support both transparent and non transparent modes                                                               |
| TSPX_BS_43_ce        | B_2     | PIXIT | ce value used in BS43 MO call. default value : '00'B, transparent                                                                                                          |
| TSPX_BS_44_T_NT      | BOOLEAN | PIXIT | BS44 both T and NT supported . default value : FALSE, not support both transparent and non transparent modes                                                               |
| TSPX_BS_44_ce        | B_2     | PIXIT | ce value used in BS44 MO call. default value : '00'B, transparent                                                                                                          |
| TSPX_BS_45_T_NT      | BOOLEAN | PIXIT | BS45 both T and NT supported . default value : FALSE, not support both transparent and non transparent modes                                                               |
| TSPX_BS_45_ce        | B_2     | PIXIT | ce value used in BS45 MO call. default value : '01'B, non transparent                                                                                                      |
| TSPX_BS_46_T_NT      | BOOLEAN | PIXIT | BS46 both T and NT supported . default value : FALSE, not support both transparent and non transparent modes                                                               |

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| TSPX_BS_46_ce         | B_2     | PIXIT | ce value used in BS46 MO call. default value : '00'B, transparent                                                                                                                                       |
| TSPX_BS_61_S          | BOOLEAN | PIXIT | synchronous data supported by BS 61 . default value : TRUE, synchronous mode                                                                                                                            |
| TSPX_BS_61_S_more_ur  | BOOLEAN | PIXIT | more than one user rate for synchronous data service supported by BS61. default value : FALSE, only one user rate                                                                                       |
| TSPX_BS_61_S_ur1      | B_4     | PIXIT | user rate value supported for synchronous data service of BS61. default value : '0100'B, 4.8 kbit/s                                                                                                     |
| TSPX_BS_61_S_ur2      | B_4     | PIXIT | another user rate value supported for synchronous data service of BS61. 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 | asynchronous data service supported by BS61 . default value : TRUE, asynchronous                                                                                                                        |
| TSPX_BS_61_A_ur1      | B_4     | PIXIT | user rate value supported for asynchronous data service of BS61. default value : '0101'B, 9.6 kbit/s                                                                                                    |
| TSPX_BS_61_A_ur1_T_NT | BOOLEAN | PIXIT | both T and NT supported for the rate TSPX_BS_61_A_ur1 of BS61. default value : FALSE, not support both transparent and non transparent modes                                                            |
| TSPX_BS_61_A_ur1_ce   | B_2     | PIXIT | if the answer to TSPX_BS_61_A_ur1_T_NT is FALSE, the manufacturer must precise which mode is supported by the MS. default value : '00'B, transparent                                                    |
| TSPX_BS_61_A_more_ur  | BOOLEAN | PIXIT | more than one user rate for asynchronous data service supported by BS61. default value : FALSE, only one user rate                                                                                      |
| TSPX_BS_61_A_ur2      | B_4     | PIXIT | another user rate value supported for asynchronous data service of BS61. 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 | both T and NT supported for the rate TSPX_BS_61_A_ur2 of BS61. default value : FALSE, not support both transparent and non transparent modes                                                            |
| TSPX_BS_81_S          | BOOLEAN | PIXIT | synchronous data supported by BS 81. default value : TRUE, synchronous mode                                                                                                                             |
| TSPX_BS_81_S_more_ur  | BOOLEAN | PIXIT | more than one user rate for synchronous data service supported by BS81. default value : FALSE, only one user rate                                                                                       |
| TSPX_BS_81_S_ur1      | B_4     | PIXIT | user rate value supported for synchronous data service of BS81. default value : '0101'B, 9.6 kbit/s                                                                                                     |
| TSPX_BS_81_S_ur2      | B_4     | PIXIT | another user rate value supported for synchronous data service of BS81. 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  |
| TSPX_BS_81_A          | BOOLEAN | PIXIT | asynchronous data service supported by BS81. default value : TRUE, asynchronous mode                                                                                                                    |

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| TSPX_BS_81_A_ur1      | B_4       | PIXIT | user rate value supported for asynchronous data service of BS81. default value : '0100'B, 4.8 kbit/s                                                                                                    |
| TSPX_BS_81_A_ur1_T_NT | BOOLEAN   | PIXIT | both T and NT supported for the rate TSPX_BS_81_A_ur1 of BS81. default value : FALSE, not support both transparent and non transparent modes                                                            |
| TSPX_BS_81_A_ur1_ce   | B_2       | PIXIT | 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 : '01'B, non transparent                                                |
| TSPX_BS_81_A_more_ur  | BOOLEAN   | PIXIT | more than one user rate for asynchronous data service supported by BS81. default value : FALSE, only one user rate                                                                                      |
| TSPX_BS_81_A_ur2      | B_4       | PIXIT | another user rate value supported for asynchronous data service of BS81. 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 | both T and NT supported for the rate TSPX_BS_81_A_ur2 of BS81. default value : FALSE, not support both transparent and non transparent modes                                                            |
| TSPX_TS_61_T_NT       | BOOLEAN   | PIXIT | both T and NT supported for TS61(fax). default value : FALSE, not support both transparent and non transparent modes                                                                                    |
| TSPX_TS_61_ce         | B_2       | PIXIT | if the answer to TSPX_TS_61_T_NT is FALSE, the manufacturer must precise which mode is supported by the MS. default value : '01'B, non transparent                                                      |
| TSPX_TS_61_ur1        | B_4       | PIXIT | user rate for TS61(fax). default value : '0101'B, 9.6 kbit/s                                                                                                                                            |
| TSPX_TS_61_more_ur    | BOOLEAN   | PIXIT | more than one user rate supported for TS61. default value : FALSE, only one user rate                                                                                                                   |
| TSPX_TS_61_ur2        | B_4       | PIXIT | another user rate for TS61, 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 | both T and NT supported for TS62. default value : FALSE, not support both transparent and non transparent modes                                                                                         |
| TSPX_TS_62_ce         | B_2       | PIXIT | if the answer to TSPX_TS_62_T_NT is FALSE, the manufacturer must precise which mode is supported by the MS. default value : '00'B, transparent                                                          |
| TSPX_TS_62_ur1        | B_4       | PIXIT | user rate for TS62. default value : '0100'B, 4.8 kbit/s                                                                                                                                                 |
| TSPX_TS_62_more_ur    | BOOLEAN   | PIXIT | more than one user rate supported by TS62. default value : FALSE, only one user rate                                                                                                                    |
| TSPX_TS_62_ur2        | B_4       | PIXIT | another user rate for TS62, 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 | call control capabilities: value '1'B means MS supports DTMF                                                                                                                                            |
| TSPX_modF             | CHMOD_VAL | PIXIT | any non signalling full rate                                                                                                                                                                            |



|                  |           |       |                                                                                                                                                                                                     |
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| TSPX_modH        | CHMOD_VAL | PIXIT | channel mode for TC_26_6_4_1<br>any non signalling half channel<br>mode for TC_26_6_4_1                                                                                                             |
| TSPX_anymod      | CHMOD_VAL | PIXIT | channel mode for<br>TC_62_10_2_4_2. Any supported<br>value except signalling and Full<br>rate speech. possible values are<br>'00000011'B' 12k data,<br>'00001011'B 6k data, '0010011'B<br>3.6k data |
| TSPX_CKSNA       | CKSN      | PIXIT | cipher key sequence number                                                                                                                                                                          |
| TSPX_CKSNB       | CKSN      | PIXIT | cipher key sequence number                                                                                                                                                                          |
| TSPX_CKSNC       | CKSN      | PIXIT | cipher key sequence number                                                                                                                                                                          |
| TSPX_CKSNDef     | CKSN      | PIXIT | default cipher key sequence<br>number                                                                                                                                                               |
| TSPX_RfPwrCap    | B_3       | PIXIT | RF power capability                                                                                                                                                                                 |
| TSPX_RevLevel    | B_2       | PIXIT | Revision level of classmark 1                                                                                                                                                                       |
| TSPX_CiphAlgA5_1 | B_1       | PIXIT | A5/1 algorithm: '1'B : available,<br>'0'B: not available                                                                                                                                            |
| TSPX_CiphAlgA5_2 | B_1       | PIXIT | A5/2 algorithm: '1'B : available,<br>'0'B: not available                                                                                                                                            |
| TSPX_CiphAlgA5_3 | B_1       | PIXIT | A5/3 algorithm: '1'B : available,<br>'0'B: not available                                                                                                                                            |
| TSPX_CiphAlgA5_4 | B_1       | PIXIT | A5/4 algorithm: '1'B : available,<br>'0'B: not available                                                                                                                                            |
| TSPX_CiphAlgA5_5 | B_1       | PIXIT | A5/5 algorithm: '1'B : available,<br>'0'B: not available                                                                                                                                            |
| TSPX_CiphAlgA5_6 | B_1       | PIXIT | A5/6 algorithm: '1'B : available,<br>'0'B: not available                                                                                                                                            |
| TSPX_CiphAlgA5_7 | B_1       | PIXIT | A5/7 algorithm: '1'B : available,<br>'0'B: not available                                                                                                                                            |
| TSPX_pSyncCap    | B_1       | PIXIT | pseudo synchronization<br>capability, '0'B: not present '1'B:<br>present                                                                                                                            |
| TSPX_SSscrnInd   | B_2       | PIXIT | SS screen indicator                                                                                                                                                                                 |
| TSPX_SMCap       | B_1       | PIXIT | short message capability, '0'B: not<br>present '1'B: present                                                                                                                                        |
| TSPX_frqCap      | B_1       | PIXIT | frequency capability. DCS:<br>reserved, GSM: '0'B not support<br>extension band, '1'B support<br>extension band                                                                                     |
| TSPX_ClsMk3      | B_1       | PIXIT | classmark 3 indicator, '0'B no<br>addition capability info, '1'B<br>additional capability info in class<br>mark 3                                                                                   |
| TSPX_RfPwrCapAmp | B_3       | PIXIT | RF power capability with external<br>RF amplifier                                                                                                                                                   |
| TSPX_CphAlgA     | CPHALG    | PIXIT | any supported ciphering algorithm                                                                                                                                                                   |
| TSPX_CphAlgB     | CPHALG    | PIXIT | ciphering algorithm supported                                                                                                                                                                       |
| TSPX_CphAlgC     | CPHALG    | PIXIT | ciphering algorithm supported                                                                                                                                                                       |
| TSPX_CphAlgD     | CPHALG    | PIXIT | ciphering algorithm supported                                                                                                                                                                       |
| TSPX_CphAlgE     | CPHALG    | PIXIT | ciphering algorithm supported                                                                                                                                                                       |
| TSPX_CphAlgDef   | CPHALG    | PIXIT | default ciphering algorithm                                                                                                                                                                         |
| TSPX_DTMFInd     | BOOLEAN   | PIXIT | DTMF indication to user<br>supported                                                                                                                                                                |
| TSPX_NoOfHoAccA  | INTEGER   | PIXIT | number of handover access<br>bursts, value range 10 - 20                                                                                                                                            |
| TSPX_NoOfHoAccB  | INTEGER   | PIXIT | number of handover access<br>bursts, value range 10 - 20                                                                                                                                            |
| TSPX_NoOfHoAccC  | INTEGER   | PIXIT | number of handover access<br>bursts, value range 10 - 20                                                                                                                                            |
| TSPX_NoOfHoAccD  | INTEGER   | PIXIT | number of handover access<br>bursts, value range 5 - 10                                                                                                                                             |
| TSPX_NoOfHoAccE  | INTEGER   | PIXIT | number of handover access<br>bursts, value range 5 - 10                                                                                                                                             |
| TSPX_NoOfHoAccF  | INTEGER   | PIXIT | number of handover access<br>bursts, value range 5 - 10                                                                                                                                             |
| TSPX_NoOfHoAccG  | INTEGER   | PIXIT | number of handover access<br>bursts, value range 2 - 5                                                                                                                                              |
| TSPX_NoOfHoAccH  | INTEGER   | PIXIT | number of handover access<br>bursts, value range 2 - 5                                                                                                                                              |

|                   |           |       |                                                           |
|-------------------|-----------|-------|-----------------------------------------------------------|
| TSPX_NoOfHoAccl   | INTEGER   | PIXIT | number of handover access bursts, value range 2 - 5       |
| TSPX_HoRefA       | HORF      | PIXIT | Hand over reference, GSM 04.08, 10.5.2.15                 |
| TSPX_HoRefB       | HORF      | PIXIT | Hand over reference, GSM 04.08, 10.5.2.15                 |
| TSPX_HoRefC       | HORF      | PIXIT | Hand over reference, GSM 04.08, 10.5.2.15                 |
| TSPX_HoRefD       | HORF      | PIXIT | Hand over reference, GSM 04.08, 10.5.2.15                 |
| TSPX_HoRefE       | HORF      | PIXIT | Hand over reference, GSM 04.08, 10.5.2.15                 |
| TSPX_HoRefF       | HORF      | PIXIT | Hand over reference, GSM 04.08, 10.5.2.15                 |
| TSPX_HoRefG       | HORF      | PIXIT | Hand over reference, GSM 04.08, 10.5.2.15                 |
| TSPX_HoRefH       | HORF      | PIXIT | Hand over reference, GSM 04.08, 10.5.2.15                 |
| TSPX_HoRefI       | HORF      | PIXIT | Hand over reference, GSM 04.08, 10.5.2.15                 |
| TSPX_HoRefJ       | HORF      | PIXIT | Hand over reference, GSM 04.08, 10.5.2.15                 |
| TSPX_HSN          | INTEGER   | PIXIT | Hopping sequence number<br>value range: 0 - 63            |
| TSPX_IMSI         | HEXSTRING | PIXIT | IMSI of the MS                                            |
| TSPX_IMEI         | HEXSTRING | PIXIT | IMEI of the MS.                                           |
| TSPX_IMEISV       | HEXSTRING | PIXIT | IMEISV of the MS.<br>Used in: TC_26_6_8_5,<br>TC_26_7_3_1 |
| TSPX_Ki           | BITSTRING | PIXIT | default authentication key used in testing                |
| TSPX_MAIO         | INTEGER   | PIXIT | mobile allocation index offset,<br>value range: 0 - 63    |
| TSPX_MaxRetrans   | INTEGER   | PIXIT | Max-Retrans                                               |
| TSPX_MSTxpwrMax   | MAXTXPOW  | PIXIT | maximum output power from MS                              |
| TSPX_PwrIvIA      | INTEGER   | PIXIT | power level, value between 2 to 15                        |
| TSPX_PwrIvIB      | INTEGER   | PIXIT | power level, value between 2 to 15                        |
| TSPX_PwrIvIC      | INTEGER   | PIXIT | power level, value between 2 to 15                        |
| TSPX_PwrIvID      | INTEGER   | PIXIT | power level, value between 2 to 15                        |
| TSPX_RANDA        | RAND      | PIXIT | challenge RAND                                            |
| TSPX_RANDB        | RAND      | PIXIT | challenge RAND                                            |
| TSPX_RANDC        | RAND      | PIXIT | challenge RAND                                            |
| TSPX_RANDDef      | RAND      | PIXIT | default challenge RAND                                    |
| TSPX_SDCCH4SubA   | B_2       | PIXIT | TDMA offset of SDCCH/4 subchannel                         |
| TSPX_SDCCH4SubB   | B_2       | PIXIT | TDMA offset of SDCCH/4 subchannel                         |
| TSPX_SDCCH4SubC   | B_2       | PIXIT | TDMA offset of SDCCH/4 subchannel                         |
| TSPX_SDCCH4SubDef | B_2       | PIXIT | TDMA offset of default SDCCH/4 subchannel                 |
| TSPX_SDCCH8SubA   | B_3       | PIXIT | TDMA offset of SDCCH/8 subchannel                         |
| TSPX_SDCCH8SubB   | B_3       | PIXIT | TDMA offset of SDCCH/8 subchannel                         |
| TSPX_SDCCH8SubC   | B_3       | PIXIT | TDMA offset of SDCCH/8 subchannel                         |
| TSPX_SDCCH8SubD   | B_3       | PIXIT | TDMA offset of SDCCH/8 subchannel                         |
| TSPX_SDCCH8SubE   | B_3       | PIXIT | TDMA offset of SDCCH/8 subchannel                         |
| TSPX_SDCCH8SubF   | B_3       | PIXIT | TDMA offset of SDCCH/8 subchannel                         |
| TSPX_SDCCH8SubG   | B_3       | PIXIT | TDMA offset of SDCCH/8 subchannel                         |

|                        |         |       |                                                                                                                                                                                      |
|------------------------|---------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TSPX_SDCCH8SubDef      | B_3     | PIXIT | subchannel<br>TDMA offset of default SDCCH/8 subchannel                                                                                                                              |
| TSPX_TC1M              | INTEGER | PIXIT | timer value for GSM timer TC1M (for SMS)                                                                                                                                             |
| TSPX_MaxCPDataRetx     | INTEGER | PIXIT | max. number of CP data retransmissions for SMS                                                                                                                                       |
| TSPX_Telephony_Immconn | BOOLEAN | PIXIT | Immediate connect for telephony supported ?                                                                                                                                          |
| TSPX_TimadvA           | INTEGER | PIXIT | timing advance                                                                                                                                                                       |
| TSPX_TimadvB           | INTEGER | PIXIT | timing advance                                                                                                                                                                       |
| TSPX_TimadvC           | INTEGER | PIXIT | timing advance                                                                                                                                                                       |
| TSPX_TmSltA            | SN      | PIXIT | time slot                                                                                                                                                                            |
| TSPX_TmSltB            | SN      | PIXIT | time slot                                                                                                                                                                            |
| TSPX_TmSltC            | SN      | PIXIT | time slot                                                                                                                                                                            |
| TSPX_TmSltD            | SN      | PIXIT | time slot                                                                                                                                                                            |
| TSPX_TmSltE            | SN      | PIXIT | time slot                                                                                                                                                                            |
| TSPX_TmSltF            | SN      | PIXIT | time slot                                                                                                                                                                            |
| TSPX_TmSltG            | SN      | PIXIT | time slot                                                                                                                                                                            |
| TSPX_TmSltDef          | SN      | PIXIT | default time slot                                                                                                                                                                    |
| TSPX_TmSltNotZero      | SN      | PIXIT | time slot, arbitrarily value, but not zero.                                                                                                                                          |
| TSPX_TmSltNotZero1     | SN      | PIXIT | time slot, arbitrarily value, but not zero and not TSPX_TmSltNotZero                                                                                                                 |
| TSPX_Txint             | INTEGER | PIXIT | Tx-Integer                                                                                                                                                                           |
| TSPX_TscA              | TSC     | PIXIT | training sequence code                                                                                                                                                               |
| TSPX_TscB              | TSC     | PIXIT | training sequence code                                                                                                                                                               |
| TSPX_TscC              | TSC     | PIXIT | training sequence code                                                                                                                                                               |
| TSPX_TscD              | TSC     | PIXIT | training sequence code                                                                                                                                                               |
| TSPX_TscE              | TSC     | PIXIT | training sequence code                                                                                                                                                               |
| TSPX_TscF              | TSC     | PIXIT | training sequence code                                                                                                                                                               |
| TSPX_TscG              | TSC     | PIXIT | training sequence code                                                                                                                                                               |
| TSPX_TscDef            | TSC     | PIXIT | default TSC                                                                                                                                                                          |
| TSPX_T3122             | WI      | PIXIT | value of timer T3122, HEXSTRING[2]                                                                                                                                                   |
| TSPX_TCHcarrierA_ho    | INTEGER | PIXIT | the value can be chosen arbitrarily from cell allocation of cell A (GSM), but not BCCH carrier .possible value is : 10, 17, 26, 34, 42, 45, 46, 52, 59, 66, 73, 74, 75, 76, 108, 114 |
| TSPX_TCHcarrierA_hod   | INTEGER | PIXIT | the value can be chosen arbitrarily from cell allocation of cell A (DCS), but not BCCH carrier . possible value is : 734,741,754,759,762,766,767,773,775,779,782,791,798,829,832,844 |
| TSPX_TCHcarrierB       | INTEGER | PIXIT | TCH and SDCCH channel frequency number of cell B (GSM)                                                                                                                               |
| TSPX_TCHcarrierBd      | INTEGER | PIXIT | TCH and SDCCH channel frequency number of cell B (DCS)                                                                                                                               |
| TSPX_TCHcarrierB_ho    | INTEGER | PIXIT | the value can be chosen arbitrarily from cell allocation of cell B (GSM), but not BCCH carrier . possible value is : 14,18,22,24,30,31,38,60,66,73,74,75,76,108,114                  |
| TSPX_TCHcarrierB_hod   | INTEGER | PIXIT | 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 | Chosen arbitrarily from cell allocation B for GSM HO cases, but not BCCH carrier!                                                                                                    |
| TSPX_TCHcarrierB2_hod  | INTEGER | PIXIT | Chosen arbitrarily from cell allocation B for DCS HO cases, but not BCCH carrier!                                                                                                    |

|                 |             |       |                                                                                                                                           |
|-----------------|-------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------|
| TSPX_TCHHSubA   | B_1         | PIXIT | TDMA offset of half rate subchannel                                                                                                       |
| TSPX_TCHHSubDef | B_1         | PIXIT | TDMA offset of default half rate subchannel                                                                                               |
| TSPX_TMSI       | TMSI_V      | PIXIT | TMSI of the MS used in test                                                                                                               |
| TSPX_TMSI1      | TMSI_V      | PIXIT | another TMSI used in test which shall differ from TSPX_TMSI, TSPX_TMSI + '01'O<br>TSPX_TMSI + '02'O<br>TSPX_TMSI + '03'O                  |
| TSPX_Uupd       | B_8         | PIXIT | user-user protocol discriminator                                                                                                          |
| TSPX_UuInfo     | OCTETSTRING | PIXIT | user-user information                                                                                                                     |
| TSPX_k          | INTEGER     | PIXIT | timing of cell A before cell B k bit periods for TC_26_6_5_4, TC_26_6_5_3.                                                                |
| TSPX_y          | INTEGER     | PIXIT | timing advance for TC_26_6_5_4, TC_26_6_5_3. the values of TSPX_k and TSPX_y shall be $0 < (2 * TSPX_k + TSPX_y) \text{ MOD } 256 < 60$ . |
| TSPX_k1         | INTEGER     | PIXIT | timing of cell A before cell B k bit periods for TC_26_6_5_5                                                                              |
| TSPX_k2         | INTEGER     | PIXIT | timing of cell A before cell B k bit periods for TC_26_6_5_6                                                                              |
| TSPX_y2         | INTEGER     | PIXIT | timing advance for TC_26_6_5_6, value range : 11 - 62.                                                                                    |
| TSPX_k3         | INTEGER     | PIXIT | timing of cell A before cell B k bit periods for TC_26_6_5_7                                                                              |
| TSPX_y3         | INTEGER     | PIXIT | timing advance for TC_26_6_5_7                                                                                                            |
| TSPX_nPara      | INTEGER     | PIXIT | the n'th ChReq for TC_26_6_1_2, shall be choose to [1..8], MAXRETRANS for TC_26_6_1_2 is 7 (See 11.10 for more explanation).              |
| TSPX_kPara      | INTEGER     | PIXIT | the k'th ChReq for TC_26_6_1_2                                                                                                            |
| TSPX_rPara      | INTEGER     | PIXIT | the r'th ChReq for TC_26_6_1_2                                                                                                            |
| TSPX_i1Para     | INTEGER     | PIXIT | for TC_26_1_2                                                                                                                             |
| TSPX_i2Para     | INTEGER     | PIXIT | for TC_26_1_2                                                                                                                             |
| TSPX_i3Para     | INTEGER     | PIXIT | the r'th ChReq for TC_26_6_1_2                                                                                                            |
| TSPX_n1Para     | INTEGER     | PIXIT | the n'th ChReq for TC_26_6_1_3                                                                                                            |
| TSPX_i4Para     | INTEGER     | PIXIT | for TC_26_6_1_3                                                                                                                           |
| TSPX_xPara      | INTEGER     | PIXIT | t3122 for TC_26_6_1_3                                                                                                                     |
| TSPX_AGBLKS1    | INTEGER     | PIXIT | BS-AG-BLKS-RES for TC_26_6_2_3_1, TC_26_6_2_1_1                                                                                           |
| TSPX_PAMFRMS1   | INTEGER     | PIXIT | BS-PA-MFRMS for TC_26_6_2_3_1 (shall not be set to 9), TC_26_6_2_1_1                                                                      |
| TSPX_CcchConf1  | CCCH_CON    | PIXIT | paging subchannel for TC_26_6_2_3_1, TC_26_6_2_1_1                                                                                        |
| TSPX_PgSubch    | INTEGER     | PIXIT | paging subchannel for TC_26_6_2_3_1                                                                                                       |
| TSPX_AGBLKS2    | INTEGER     | PIXIT | BS-AG-BLKS-RES for TC_26_6_2_3_2, TC_26_6_2_1_2                                                                                           |
| TSPX_PAMFRMS2   | INTEGER     | PIXIT | BS-PA-MFRMS for TC_26_6_2_3_2, TC_26_6_2_1_2                                                                                              |
| TSPX_CcchConf2  | CCCH_CON    | PIXIT | paging subchannel for TC_26_6_2_3_2, TC_26_6_2_1_2                                                                                        |
| TSPX_AGBLKS3    | INTEGER     | PIXIT | BS-AG-BLKS-RES for TC_26_6_2_4, TC_26_6_2_2, TC_26_6_2_1_3                                                                                |
| TSPX_PAMFRMS3   | INTEGER     | PIXIT | 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 | paging subchannel for TC_26_6_2_4, TC_26_6_2_2, TC_26_6_2_1_3                                                                             |

|                |           |       |                                                                                                                                        |
|----------------|-----------|-------|----------------------------------------------------------------------------------------------------------------------------------------|
| TSPX_AGBLKS4   | INTEGER   | PIXIT | BS-AG-BLKS-RES for TC_26_6_2_5                                                                                                         |
| TSPX_PAMFRMS4  | INTEGER   | PIXIT | BS-PA-MFRMS for TC_26_6_2_5                                                                                                            |
| TSPX_CcchConf4 | CCCH_CON  | PIXIT | paging subchannel for TC_26_6_2_5 (shall be in the set ('010', '100', '110'))                                                          |
| TSPX_Chtp1     | CH_TDMA   | PIXIT | channel type for TC_26_6_13_1, any value supported by the MS                                                                           |
| TSPX_ChMod1    | CHMOD_VAL | PIXIT | channel mode for TC_26_6_13_1, any value for the channel type of TSPX_Chtp1                                                            |
| TSPX_Tm1       | INTEGER   | PIXIT | a value to calculate the starting time for TC_26_6_13_1, value between 60 -100                                                         |
| TSPX_Maio1     | INTEGER   | PIXIT | 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 | mobile allocation for TC_26_6_13_1, its value shall indicate number of frequencies between 1 and 17. default : '010101'O               |
| TSPX_Hsn1      | INTEGER   | PIXIT | hopping parameter for TC_26_6_13_1. default: 1                                                                                         |
| TSPX_Maio2     | INTEGER   | PIXIT | 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 | 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 | hopping parameter for TC_26_6_13_1, default : 6                                                                                        |
| TSPX_Maio3     | INTEGER   | PIXIT | 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 | 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 | hopping parameter for TC_26_6_13_1, default : 0                                                                                        |
| TSPX_Chtp2     | CH_TDMA   | PIXIT | channel type for TC_26_6_13_2, any value supported by the MS                                                                           |
| TSPX_ChMod2    | CHMOD_VAL | PIXIT | channel mode for TC_26_6_13_2                                                                                                          |
| TSPX_Maio4     | INTEGER   | PIXIT | 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 | 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 | hopping parameter for TC_26_6_13_2, default : 0                                                                                        |
| TSPX_Maio5     | INTEGER   | PIXIT | 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 | mobile allocation for TC_26_6_13_2, its value shall indicate number of frequencies between 1 and 17. default :                         |

|             |         |       |                                                                                                                                         |
|-------------|---------|-------|-----------------------------------------------------------------------------------------------------------------------------------------|
| TSPX_Hsn5   | INTEGER | PIXIT | '01ABCBO<br>hopping parameter for TC_26_6_13_2, default : 16                                                                            |
| TSPX_Chtp3  | CH_TDMA | PIXIT | channel type for TC_26_6_13_3, any value supported by the MS                                                                            |
| TSPX_Mai06  | INTEGER | PIXIT | 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 | 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 | hopping parameter for TC_26_6_13_3, default : 4                                                                                         |
| TSPX_Mai07  | INTEGER | PIXIT | 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 | mobile allocation for TC_26_6_13_3, its value shall indicate number of frequencies between 2 and 17. default : '009AFBO                 |
| TSPX_Chtp4  | CH_TDMA | PIXIT | channel type for TC_26_6_13_3, any value supported by the MS                                                                            |
| TSPX_Mai08  | INTEGER | PIXIT | 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 | 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 | hopping parameter for TC_26_6_13_3, default : 40                                                                                        |
| TSPX_Mai09  | INTEGER | PIXIT | 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 | mobile allocation for TC_26_6_13_3, its value shall indicate number of frequencies between 2 and 17. default : '01FFFO                  |
| TSPX_Hsn9   | INTEGER | PIXIT | hopping parameter for TC_26_6_13_3, default : 8                                                                                         |
| TSPX_Chtp5  | CH_TDMA | PIXIT | channel type for TC_26_6_13_4                                                                                                           |
| TSPX_Mai010 | INTEGER | PIXIT | 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 | 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 | hopping parameter for TC_26_6_13_4, default: 0                                                                                          |
| TSPX_Mai011 | INTEGER | PIXIT | 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 | mobile allocation for TC_26_6_13_4, its value shall indicate number of frequencies                                                      |

|             |           |       |                                                                                                                                         |
|-------------|-----------|-------|-----------------------------------------------------------------------------------------------------------------------------------------|
| TSPX_Chtp6  | CH_TDMA   | PIXIT | between 2 and 17. default : '00CFF3'O                                                                                                   |
| TSPX_Maio12 | INTEGER   | PIXIT | channel type for TC_26_6_13_4                                                                                                           |
|             |           |       | 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 | 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 | hopping parameter for TC_26_6_13_4, default : 39                                                                                        |
| TSPX_Maio13 | INTEGER   | PIXIT | 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 | 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 | hopping parameter for TC_26_6_13_4, default: 42                                                                                         |
| TSPX_Chtp7  | CH_TDMA   | PIXIT | channel type for TC_26_6_13_5                                                                                                           |
| TSPX_ChMod4 | CHMOD_VAL | PIXIT | channel mode for TC_26_6_13_5                                                                                                           |
| TSPX_Tm2    | INTEGER   | PIXIT | a value to calculate the starting time for TC_26_6_13_5, value between 60 -100                                                          |
| TSPX_Maio14 | INTEGER   | PIXIT | 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 | mobile allocation for TC_26_6_13_5, its value shall indicate number of frequencies between 1 and 17. default : '014A28'O                |
| TSPX_Hsn14  | INTEGER   | PIXIT | hopping parameter for TC_26_6_13_5, default : 50                                                                                        |
| TSPX_Maio15 | INTEGER   | PIXIT | 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 | 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 | hopping parameter for TC_26_6_13_5, default : 33                                                                                        |
| TSPX_Maio16 | INTEGER   | PIXIT | 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  |
| TSPX_Ma16   | MAC       | PIXIT | 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 | hopping parameter for TC_26_6_13_5, default : 21                                                                                        |
| TSPX_Chtp8  | CH_TDMA   | PIXIT | channel type for TC_26_6_13_6                                                                                                           |
| TSPX_ChMod5 | CHMOD_VAL | PIXIT | channel mode for TC_26_6_13_6                                                                                                           |
| TSPX_Maio17 | INTEGER   | PIXIT | hopping parameter for TC_26_6_13_6, its value between 0 and (the number of frequencies) -1, which is defined in                         |

|             |           |       |                                                                                                                                                    |
|-------------|-----------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| TSPX_Ma17   | MAC       | PIXIT | TSPX_Ma17, default : 7<br>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 | hopping parameter for TC_26_6_13_6, default : 22                                                                                                   |
| TSPX_Maio18 | INTEGER   | PIXIT | 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 | 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 | hopping parameter for TC_26_6_13_6, default : 9                                                                                                    |
| TSPX_Maio19 | INTEGER   | PIXIT | 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 | 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 | hopping parameter for TC_26_6_13_6, default : 44                                                                                                   |
| TSPX_Chtp9  | CH_TDMA   | PIXIT | channel type for TC_26_6_13_7                                                                                                                      |
| TSPX_ChMod6 | CHMOD_VAL | PIXIT | channel mode for TC_26_6_13_7                                                                                                                      |
| TSPX_Maio20 | INTEGER   | PIXIT | 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 | 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 | hopping parameter for TC_26_6_13_7, default : 30                                                                                                   |
| TSPX_Maio21 | INTEGER   | PIXIT | 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 | 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 | channel type for TC_26_6_13_7                                                                                                                      |
| TSPX_Maio22 | INTEGER   | PIXIT | 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 | 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 | hopping parameter for TC_26_6_13_7, default : 11                                                                                                   |
| TSPX_Maio23 | INTEGER   | PIXIT | 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            |



|             |           |       |                                                                                                                                         |
|-------------|-----------|-------|-----------------------------------------------------------------------------------------------------------------------------------------|
| TSPX_Ma23   | MAC       | PIXIT | 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 | hopping parameter for TC_26_6_13_7, default : 60                                                                                        |
| TSPX_Chtp11 | CH_TDMA   | PIXIT | channel type for TC_26_6_13_8                                                                                                           |
| TSPX_ChMod7 | CHMOD_VAL | PIXIT | channel mode for TC_26_6_13_8                                                                                                           |
| TSPX_Maio24 | INTEGER   | PIXIT | 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 | 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 | hopping parameter for TC_26_6_13_8, default : 7                                                                                         |
| TSPX_Maio25 | INTEGER   | PIXIT | 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 | 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 | channel type for TC_26_6_13_8                                                                                                           |
| TSPX_Maio26 | INTEGER   | PIXIT | 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 | mobile allocation for TC_26_6_13_8, its value shall indicate number of frequencies between 1 and 16. default : '009168'O                |
| TSPX_Hsn26  | INTEGER   | PIXIT | hopping parameter for TC_26_6_13_8, default : 9                                                                                         |
| TSPX_Maio27 | INTEGER   | PIXIT | 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 | 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 | hopping parameter for TC_26_6_13_8, default : 38                                                                                        |
| TSPX_Chtp13 | CH_TDMA   | PIXIT | channel type for TC_26_6_13_9                                                                                                           |
| TSPX_Tm3    | INTEGER   | PIXIT | channel mode for TC_26_6_13_9, value between 60 -100                                                                                    |
| TSPX_Maio28 | INTEGER   | PIXIT | 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 | 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 | hopping parameter for TC_26_6_13_9, default : 11                                                                                        |
| TSPX_Maio29 | INTEGER   | PIXIT | hopping parameter for TC_26_6_13_9, its value between 0 and (the number of frequencies)                                                 |

|                    |          |       |                                                                                                                                          |
|--------------------|----------|-------|------------------------------------------------------------------------------------------------------------------------------------------|
| TSPX_Ma29          | MAC      | PIXIT | -1, which is defined in TSPX_Ma29, default : 6                                                                                           |
| TSPX_Chtp14        | CH_TDMA  | PIXIT | mobile allocation for TC_26_6_13_9, its value shall indicate number of frequencies between 1 and 17. default : '00F070'O                 |
| TSPX_Maio30        | INTEGER  | PIXIT | channel type for TC_26_6_13_10                                                                                                           |
| TSPX_Ma30          | MAC      | PIXIT | 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_Hsn30         | INTEGER  | PIXIT | mobile allocation for TC_26_6_13_10, its value shall indicate number of frequencies between 1 and 17. default : '017F69'O                |
| TSPX_Maio31        | INTEGER  | PIXIT | hopping parameter for TC_26_6_13_10, default : 62                                                                                        |
| TSPX_Ma31          | MAC      | PIXIT | 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_MOBscSvcA     | SERVICES | PIXIT | mobile allocation for TC_26_6_13_10, its value shall indicate number of frequencies between 1 and 17. default : '000101'O                |
| TSPX_MOBscSvcB     | SERVICES | PIXIT | any supported MO basic service                                                                                                           |
| TSPX_MOBscSvcC     | SERVICES | PIXIT | any supported MO basic service                                                                                                           |
| TSPX_MOBscSvcD     | SERVICES | PIXIT | any supported MO basic service                                                                                                           |
| TSPX_MOBscSvcE     | SERVICES | PIXIT | any supported MO basic service                                                                                                           |
| TSPX_MOBscSvcF     | SERVICES | PIXIT | any supported MO basic service                                                                                                           |
| TSPX_MOBscSvcG     | SERVICES | PIXIT | any supported MO basic service                                                                                                           |
| TSPX_MOBscSvcH     | SERVICES | PIXIT | any supported MO basic service                                                                                                           |
| TSPX_MOBscSvcI     | SERVICES | PIXIT | any supported MO basic service                                                                                                           |
| TSPX_MOBscSvcJ     | SERVICES | PIXIT | any supported MO basic service                                                                                                           |
| TSPX_MT_DualModSvc | SERVICES | PIXIT | any supported MO basic service                                                                                                           |
| TSPX_MT_NonSptSvc  | SERVICES | PIXIT | any supported MT dual mode service                                                                                                       |
| TSPX_MTBscSvcA     | SERVICES | PIXIT | any not supported MT basic service                                                                                                       |
| TSPX_MTBscSvcB     | SERVICES | PIXIT | any supported MT basic service                                                                                                           |
| TSPX_MTBscSvcC     | SERVICES | PIXIT | any supported MT basic service                                                                                                           |
| TSPX_MTBscSvcD     | SERVICES | PIXIT | any supported MT basic service                                                                                                           |
| TSPX_MTBscSvcE     | SERVICES | PIXIT | any supported MT basic service                                                                                                           |
| TSPX_MTBscSvcF     | SERVICES | PIXIT | any supported MT basic service                                                                                                           |
| TSPX_MTBscSvcG     | SERVICES | PIXIT | any supported MT basic service                                                                                                           |
| TSPX_MTBscSvcH     | SERVICES | PIXIT | any supported MT basic service                                                                                                           |
| TSPX_MTBscSvcI     | SERVICES | PIXIT | any supported MT basic service                                                                                                           |
| TSPX_MTBscSvcJ     | SERVICES | PIXIT | any supported MT basic service                                                                                                           |
| TSPX_MTNIC_BscSvcA | SERVICES | PIXIT | any supported MT basic service without immediate connection                                                                              |
| TSPX_MTNIC_BscSvcB | SERVICES | PIXIT | any supported MT basic service without immediate connection                                                                              |
| TSPX_MTNIC_BscSvcC | SERVICES | PIXIT | any supported MT basic service without immediate connection                                                                              |
| TSPX_MTNIC_BscSvcD | SERVICES | PIXIT | any supported MT basic service without immediate connection                                                                              |
| TSPX_MTNIC_BscSvcE | SERVICES | PIXIT | any supported MT basic service without immediate connection                                                                              |
| TSPX_MTNIC_BscSvcF | SERVICES | PIXIT | any supported MT basic service without immediate connection                                                                              |
| TSPX_MTNIC_BscSvcG | SERVICES | PIXIT | any supported MT basic service without immediate connection                                                                              |
| TSPX_MTNIC_BscSvcH | SERVICES | PIXIT | any supported MT basic service without immediate connection                                                                              |

|                     |          |       |                                                             |
|---------------------|----------|-------|-------------------------------------------------------------|
| TSPX_MTNIC_BscSvcI  | SERVICES | PIXIT | any supported MT basic service without immediate connection |
| TSPX_MTNIC_BscSvcJ  | SERVICES | PIXIT | any supported MT basic service without immediate connection |
| TSPX_Telephony_Rate | RATE     | PIXIT | channel rate for TS11, default value : C_Full               |
| TSPX_MOChRateA      | RATE     | PIXIT | channel rate for TSPX_MOBscSvcA, default value : C_Full     |
| TSPX_MOChRateB      | RATE     | PIXIT | channel rate for TSPX_MOBscSvcB, default value : C_Full     |
| TSPX_MOChRateC      | RATE     | PIXIT | channel rate for TSPX_MOBscSvcC, default value : C_Full     |
| TSPX_MOChRateD      | RATE     | PIXIT | channel rate for TSPX_MOBscSvcD, default value : C_Full     |
| TSPX_MOChRateE      | RATE     | PIXIT | channel rate for TSPX_MOBscSvcE, default value : C_Full     |
| TSPX_MOChRateF      | RATE     | PIXIT | channel rate for TSPX_MOBscSvcF, default value : C_Full     |
| TSPX_MOChRateG      | RATE     | PIXIT | channel rate for TSPX_MOBscSvcG, default value : C_Full     |
| TSPX_MOChRateH      | RATE     | PIXIT | channel rate for TSPX_MOBscSvcH, default value : C_Full     |
| TSPX_MOChRateI      | RATE     | PIXIT | channel rate for TSPX_MOBscSvcI, default value : C_Full     |
| TSPX_MOChRateJ      | RATE     | PIXIT | channel rate for TSPX_MOBscSvcJ, default value : C_Full     |
| TSPX_MTChRateA      | RATE     | PIXIT | channel rate for TSPX_MTBscSvcA, default value : C_Full     |
| TSPX_MTChRateB      | RATE     | PIXIT | channel rate for TSPX_MTBscSvcB, default value : C_Full     |
| TSPX_MTChRateC      | RATE     | PIXIT | channel rate for TSPX_MTBscSvcC, default value : C_Full     |
| TSPX_MTChRateD      | RATE     | PIXIT | channel rate for TSPX_MTBscSvcD, default value : C_Full     |
| TSPX_MTChRateE      | RATE     | PIXIT | channel rate for TSPX_MTBscSvcE, default value : C_Full     |
| TSPX_MTChRateF      | RATE     | PIXIT | channel rate for TSPX_MTBscSvcF, default value : C_Full     |
| TSPX_MTChRateG      | RATE     | PIXIT | channel rate for TSPX_MTBscSvcG, default value : C_Full     |
| TSPX_MTChRateH      | RATE     | PIXIT | channel rate for TSPX_MTBscSvcH, default value : C_Full     |
| TSPX_MTChRateI      | RATE     | PIXIT | channel rate for TSPX_MTBscSvcI, default value : C_Full     |
| TSPX_MTChRateJ      | RATE     | PIXIT | channel rate for TSPX_MTBscSvcJ, default value : C_Full     |
| TSPX_MTNIC_ChRateA  | RATE     | PIXIT | channel rate for TSPX_MTNIC_BscSvcA, default value : C_Full |
| TSPX_MTNIC_ChRateB  | RATE     | PIXIT | channel rate for TSPX_MTNIC_BscSvcB, default value : C_Full |
| TSPX_MTNIC_ChRateC  | RATE     | PIXIT | channel rate for                                            |

|                           |          |       |                                                                |
|---------------------------|----------|-------|----------------------------------------------------------------|
| TSPX_MTNIC_ChRateD        | RATE     | PIXIT | TSPX_MTNIC_BscSvcC, default value : C_Full                     |
| TSPX_MTNIC_ChRateE        | RATE     | PIXIT | channel rate for TSPX_MTNIC_BscSvcD, default value : C_Full    |
| TSPX_MTNIC_ChRateF        | RATE     | PIXIT | channel rate for TSPX_MTNIC_BscSvcE, default value : C_Full    |
| TSPX_MTNIC_ChRateG        | RATE     | PIXIT | channel rate for TSPX_MTNIC_BscSvcF, default value : C_Full    |
| TSPX_MTNIC_ChRateH        | RATE     | PIXIT | channel rate for TSPX_MTNIC_BscSvcG, default value : C_Full    |
| TSPX_MTNIC_ChRateI        | RATE     | PIXIT | channel rate for TSPX_MTNIC_BscSvcH, default value : C_Full    |
| TSPX_MTNIC_ChRateJ        | RATE     | PIXIT | channel rate for TSPX_MTNIC_BscSvcI, default value : C_Full    |
| TSPX_EmgCallRate          | RATE     | PIXIT | channel rate for TSPX_MTNIC_BscSvcJ, default value : C_Full    |
| TSPX_MO_NonCallSS         | SERVICES | PIXIT | Rate for the basic service supported for MO emergency calls    |
| TSPX_MO_BscSvc_SMS        | SERVICES | PIXIT | any supported MO non-call related supplementary service        |
| TSPX_MO_DualModSvc        | SERVICES | PIXIT | any supported MO SMS calls                                     |
| TSPX_MO_DualModRate       | RATE     | PIXIT | any supported MO dual mode call                                |
|                           |          |       | Rate for the supported MO dual mode call in TSPX_MO_DualModSvc |
| <b>Detailed Comments:</b> |          |       |                                                                |

**Test case selection expression definitions**

| <b>Test Case Selection Expression Definitions</b> |                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                             |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 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                                                             |
| 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_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                                                                                                 | StrcutreProc 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                                                                             |
| 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                                                                       | CFNRY 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                                                                       | CFNRC 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<br>TSPC_Serv_TS21 AND SelExpr_0301                                      | MO/PP supported and MT/PP supported<br>and CC protocol for at least one BC<br>supported                                                                   |
| SelExpr_0903              | TSPC_Serv_TS22 AND<br>TSPC_StoreRcvSMSME AND<br>TSPC_StoreRcvSMSSIM                        | MO/PP supported AND storage of SMS in<br>the ME supported AND storage of SMS in<br>the SIM supported                                                      |
| SelExpr_0904              | TSPC_Serv_TS22 AND<br>TSPC_Serv_TS21 AND<br>TSPC_SMSStatusRepCap                           | MO/PP supported AND MT/PP supported<br>AND SMS Status report capabilities<br>supported                                                                    |
| SelExpr_0905              | TSPC_Serv_TS21 AND<br>TSPC_DispRcvSMS                                                      | MT/PP supported AND display of<br>received short message supported                                                                                        |
| SelExpr_0906              | TSPC_Serv_TS21 AND<br>TSPC_DispRcvSMS<br>AND(TSPC_StoreRcvSMSME OR<br>TSPC_StoreRcvSMSSIM) | MT/PP supported AND display of<br>received short message supported AND<br>(storage of SMS in the ME supported OR<br>storage of SMS in the SIM supported ) |
| SelExpr_0907              | TSPC_Serv_TS21 AND<br>TSPC_StoreRcvSMSSIM                                                  | MT/PP supported AND display of<br>received short message supported AND<br>storage of SMS in the SIM supported                                             |
| SelExpr_0908              | TSPC_Serv_TS21 AND<br>TSPC_ReplaceSMS AND<br>TSPC_DispRcvSMS                               | MT/PP supported AND "replace short<br>message" and "display of received short<br>message" supported                                                       |
| SelExpr_0909              | TSPC_Serv_TS22 AND<br>TSPC_Serv_TS21 AND TSPC_ReplyProc<br>AND TSPC_DispRcvSMS             | MO/PP supported AND MT/PP supported<br>AND "reply procedure" and "display of<br>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<br>OR TSPC_Serv_TS62                                      | telephony supported or alternate<br>speech/data supported or Teleservice<br>automatic G3 fax supported                                                    |
| SelExpr_1003              | TSPC_Serv_TS12                                                                             | emergency call supported                                                                                                                                  |
| <b>Detailed Comments:</b> |                                                                                            |                                                                                                                                                           |

## Test suite constant declarations

| 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<br>(GSM: 40) |
| C_BCCHcarrierB_hod               | INTEGER | 764    | BCCH frequency number of cell B for Ho cases<br>(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 colour code                                       |
| C_NCC_0                          | NCC     | '000'B | Network colour code value '000'B                          |
| C_NCC_1                          | NCC     | '001'B | Network colour code value '001'B                          |
| C_NCC_2                          | NCC     | '010'B | Network colour code value '010'B                          |
| C_NCC_3                          | NCC     | '011'B | Network colour code value '011'B                          |
| C_NCC_4                          | NCC     | '100'B | Network colour code value '100'B                          |
| C_NCC_5                          | NCC     | '101'B | Network colour code value '101'B                          |
| C_NCC_6                          | NCC     | '110'B | Network colour code value '110'B                          |
| C_NCC_7                          | NCC     | '111'B | Network colour code value '111'B                          |
| C_NCCP_2                         | NCCP    | '02'O  | Network colour code permitted value '02'O                 |
| C_NCCP_10                        | NCCP    | '0A'O  | Network colour code permitted value '0A'O                 |
| C_BCC                            | BCC     | '101'B | Base Station colour code                                  |
| C_BCC_0                          | BCC     | '000'B | Base Station colour code value 0                          |
| C_BCC_1                          | BCC     | '001'B | Base Station colour code value 1                          |
| C_BCC_3                          | BCC     | '011'B | Base Station colour code value 3                          |
| C_BCC_7                          | BCC     | '111'B | Base Station colour code value 7                          |
| C_cch_1nonComb                   | B_3     | '000'B | cch_con = 1 non combined                                  |
| C_cch_1Comb                      | B_3     | '001'B | cch_con = 1 non combined                                  |
| C_cch_2nonComb                   | B_3     | '010'B | cch_con = 1 non combined                                  |
| C_cch_3nonComb                   | B_3     | '100'B | cch_con = 1 non combined                                  |
| C_cch_4nonComb                   | B_3     | '110'B | cch_con = 1 non combined                                  |
| C_cch_XnonComb                   | B_3     | '??'B  | cch_con = non combined                                    |



|                  |             |                                     |                                                                                                                                                                                                     |
|------------------|-------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C_cch_NotAllowed | B_3         | '???'B                              | all number value permitted<br>cch_con = value reserved after testing '001'B                                                                                                                         |
| C_cchd_e_407     | OCTETSTRING | '8DEA0DF4CC6C4AFAFB100000000000'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}.<br>Length = 16<br>TC_26_10_4, k=2, c=1<br>TC_26.10.6, c=1       |
| C_cchd_e_408     | OCTETSTRING | '8A0A1CFD3EF4610E2FFFFA0000000000'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}<br>Length = 16<br>TC_26_10_4, k=2, c=2<br>TC_26.10.6, c=2                       |
| C_cchd_e_409     | OCTETSTRING | '89EA037F433C7B042BFEBFEC10000000'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}.<br>Length = 16<br>TC_26_10_4, k=2, c=3 TC: 26.10.6 c=3          |
| C_cchd_e_410     | OCTETSTRING | '841EEA893EF98143B1610000000000'O   | f-list for cellchdescr using of 1024 format.<br>Length = 16                                                                                                                                         |
| C_cchd_e_411     | OCTETSTRING | '8FEA703E08421000000000000000'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}.<br>Length = 16<br>TC_26_10_4, k=2, c=5 TC: 26.10.6 c=5 |
| C_cchd_e_412     | OCTETSTRING | '0002080000007F020000008000080000'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}<br>Length = 16<br>TC_26_10_4, k=2, c=6                                    |
| C_cchd_e_414     | OCTETSTRING | '00000000000000002000020002000000'O | f-list for cellchdescr using of bit map 0 format.<br>Length = 16<br>f_list: 30, 50 ,70<br>TC: 26.10.6 c=6                                                                                           |
| C_cchd_e_415     | OCTETSTRING | '841EEA893EF9814380000000000000'O   | f-list for cellchdescr using range 1024 format. The coded set is {0, 30, 40, 66, 80, 1005, 1010, 1015}.<br>Length = 16<br>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                                                                                                                                                                                    |

|                      |             |                                    |                                                                                                                                                                                                                                           |
|----------------------|-------------|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C_ci_cellA           | CI          | '0001'O                            | Cell Id for cell A                                                                                                                                                                                                                        |
| C_ci_cellB           | CI          | '0002'O                            | Cell Id for cell B                                                                                                                                                                                                                        |
| C_ci_cellC           | CI          | '0003'O                            | Cell Id for cell C                                                                                                                                                                                                                        |
| C_ci_cellD           | CI          | '0004'O                            | Cell Id for cell D                                                                                                                                                                                                                        |
| C_ci_cellE           | CI          | '0005'O                            | Cell Id for cell E                                                                                                                                                                                                                        |
| C_ci_cellF           | CI          | '0006'O                            | Cell Id for cell F                                                                                                                                                                                                                        |
| C_ci_cellG           | CI          | '0007'O                            | Cell Id for cell G                                                                                                                                                                                                                        |
| C_ci_cellH           | CI          | '0008'O                            | Cell Id for cell H                                                                                                                                                                                                                        |
| C_cksn_nokey         | BITSTRING   | '111'B                             | No key available                                                                                                                                                                                                                          |
| C_E_default          | INTEGER     | 63                                 | Default field strength                                                                                                                                                                                                                    |
| C_E_suitable         | INTEGER     | 53                                 | Field strength of a suitable cell                                                                                                                                                                                                         |
| C_E_notsuitable      | INTEGER     | 45                                 | Field strength of a not suitable cell for reselection                                                                                                                                                                                     |
| C_E_notsuitable_fSel | INTEGER     | 24                                 | Field strength of a not suitable cell for selection                                                                                                                                                                                       |
| 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<br>Length = 5<br>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.<br>Length = 6<br>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.<br>Length = 6<br>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.<br>Length = 6<br>TC_26_10_4, k=1, c=4 TC: 26.10.5.1 k=1/2,c=4                                                                   |
| C_flist_e_405        | OCTETSTRING | '8FEC001F000010'O                  | It includes the list of f's in EGSM test cases. The coded set is {980, 991, 992, 993, 994, 1015}.<br>Length = 7<br>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.<br>Length = 16<br>TC_26_10_4, k=1, c=6 TC: 26.10.5.1 k=2,c=6                                                                              |
| C_flist_e_407        | OCTETSTRING | '8DEA0DF4CC6C4AFAFB100000000000'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.<br>Length = 16<br>TC_26_10_4, k=2, c=1 TC: 26.10.5.1 k=3,c=1<br>TC: 26.10.6 c=1 |
| C_flist_e_408        | OCTETSTRING | '8A0A1CFD3EF4610E2FFFFA0000'O      | It includes the list of f's in EGSM test cases. The coded set is {20, 40, 66, 73, 74, 75, 76, 77, 78, 79, 108, 114, 115}, range 256 format.<br>Length = 13<br>TC_26_10_4, k=2, c=2 TC: 26.10.5.1 k=3,c=2                                  |

|               |             |                                     |                                                                                                                                                                                                                                                              |
|---------------|-------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C_flist_e_409 | OCTETSTRING | '89EA037F433C7B042BFEBFEC1000000'O  | TC: 26.10.6 c=2<br>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.<br>Length = 16<br>TC_26_10_4, k=2, c=3 TC: 26.10.5.2 k=3,c=3<br>TC: 26.10.6 c=3 |
| C_flist_e_410 | OCTETSTRING | '841EEA893EF98143B161'O             | Length = 10<br>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.<br>Length = 7<br>TC_26_10_4, k=2, c=5 TC: 26.10.5.1 k=3,c=5<br>TC: 26.10.6 c=5               |
| C_flist_e_412 | OCTETSTRING | '0002080000007F020000008000080000'O | It includes the list of f's in EGSM test cases. The coded set is {20, 40, 66, 73, 74, 75, 76, 77, 78, 79, 108, 114, 115}, bitmap 0 format.<br>Length = 16<br>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.<br>Length = 9<br>Format: 1024<br>TC_26_10_4, k=2, c=4 TC: 26.10.6 c=4                                                             |
| C_flist_e_416 | OCTETSTRING | '0002080000007F020000008000080000'O | bit map 0 format. The coded set is {20, 40, 66, 73, 74, 75, 76, 77, 78, 79, 108, 114}<br>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                                                                                                                                                                                                                                   |
| C_BPM_2       | B_3         | '010'B                              | BPM value 2, 4 multiframes                                                                                                                                                                                                                                   |
| C_BPM_3       | B_3         | '011'B                              | BPM value 3, 5 multiframes                                                                                                                                                                                                                                   |
| C_BPM_7       | B_3         | '111'B                              | BPM value 7, 9 multiframes                                                                                                                                                                                                                                   |
| C_T3212_0     | OCTETSTRING | '00'O                               | T3212 infinite                                                                                                                                                                                                                                               |
| C_T3212_1     | OCTETSTRING | '01'O                               | T3212 6 mn / 1 deci hours                                                                                                                                                                                                                                    |
| C_T3212_2     | OCTETSTRING | '02'O                               | T3212 12 mn / 2 deci hours                                                                                                                                                                                                                                   |
| C_T3212_5     | OCTETSTRING | '05'O                               | T3212 30 mn / 5 deci hours                                                                                                                                                                                                                                   |
| C_IMSI        | INTEGER     | 0                                   | MI type: IMSI                                                                                                                                                                                                                                                |
| C_TMSI        | INTEGER     | 1                                   | MI type: TMSI                                                                                                                                                                                                                                                |
| C_IMEI        | INTEGER     | 2                                   | MI type: IMEI                                                                                                                                                                                                                                                |
| C_IMEISV      | INTEGER     | 3                                   | MI type: IMEISV                                                                                                                                                                                                                                              |
| C_shortIMSI   | HEXSTRING   | '001011234'H                        | A short IMSI                                                                                                                                                                                                                                                 |
| C_LAC_1       | OCTETSTRING | '0001'O                             | lac 1.                                                                                                                                                                                                                                                       |
| C_LAC_2       | OCTETSTRING | '0002'O                             | lac 2.                                                                                                                                                                                                                                                       |
| C_LAC_3       | OCTETSTRING | '0003'O                             | lac 3.                                                                                                                                                                                                                                                       |
| C_LAC_4       | OCTETSTRING | '0004'O                             | lac 4.                                                                                                                                                                                                                                                       |
| C_LAC_5       | OCTETSTRING | '0005'O                             | lac 5.                                                                                                                                                                                                                                                       |
| C_LAC_6       | OCTETSTRING | '0006'O                             | lac 6.                                                                                                                                                                                                                                                       |
| C_LAC_7       | OCTETSTRING | '0007'O                             | lac 7.                                                                                                                                                                                                                                                       |
| C_LAC_8       | OCTETSTRING | '0008'O                             | lac 8.                                                                                                                                                                                                                                                       |
| C_LAC_spe     | OCTETSTRING | '5344'O                             | lac '5344'H.                                                                                                                                                                                                                                                 |
| C_lacdeleted  | OCTETSTRING | 'FFFE'O                             | lac value deleted.                                                                                                                                                                                                                                           |
| C_MCC_1       | OCTETSTRING | '00F1'O                             | MCC 1                                                                                                                                                                                                                                                        |
| C_MCC_2       | OCTETSTRING | '00F2'O                             | MCC 2                                                                                                                                                                                                                                                        |

|               |             |              |                                           |
|---------------|-------------|--------------|-------------------------------------------|
| C_MCC_3       | OCTETSTRING | '00F3'O      | MCC 3                                     |
| C_MCC_4       | OCTETSTRING | '00F4'O      | MCC 4                                     |
| C_MCC_5       | OCTETSTRING | '00F5'O      | MCC 5                                     |
| C_MCC_6       | OCTETSTRING | '00F6'O      | MCC 6                                     |
| C_MCC_7       | OCTETSTRING | '00F7'O      | MCC 7                                     |
| C_MCC_8       | OCTETSTRING | '00F8'O      | MCC 8                                     |
| C_MCC_9       | OCTETSTRING | '013B'O      | MCC 9                                     |
| C_Max_1       | INTEGER     | 1            | Max Retrans value 1                       |
| C_Max_2       | INTEGER     | 2            | Max Retrans value 2                       |
| C_Max_7       | INTEGER     | 7            | Max Retrans value 7                       |
| C_NECI_0      | INTEGER     | 0            | NECI value 0, not supported               |
| C_NECI_1      | INTEGER     | 1            | NECI value 1, supported                   |
| C_PLMN_1      | OCTETSTRING | '10'O        | PLMN 1 (mnc=01)                           |
| C_PLMN_2      | OCTETSTRING | '20'O        | PLMN 2 (mnc=02)                           |
| C_PLMN_3      | OCTETSTRING | '30'O        | PLMN 3 (mnc=03)                           |
| C_PLMN_4      | OCTETSTRING | 'F0'O        | PLMN 4                                    |
| C_PLMN_5      | OCTETSTRING | 'F2'O        | PLMN 5                                    |
| C_PLMN_6      | OCTETSTRING | 'F3'O        | PLMN 6                                    |
| C_PLMN_7      | OCTETSTRING | 'F4'O        | PLMN 7                                    |
| C_PLMN_8      | OCTETSTRING | 'F5'O        | PLMN 8                                    |
| C_PLMN_9      | OCTETSTRING | 'F6'O        | PLMN 9                                    |
| C_PLMN_10     | OCTETSTRING | 'F7'O        | PLMN 10                                   |
| C_PLMN_Home   | OCTETSTRING | '10'O        | PLMN 1 (mnc=01)                           |
| 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           |
| 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          |
| 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_C_1    | LOGICCH | "C_RACH_C_1"    | 1st 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           |
| 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 |
| 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_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   |
| 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      |
| 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 |
| 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 |
| 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 |
| 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                      |

|                |         |                  |                                                      |
|----------------|---------|------------------|------------------------------------------------------|
| C_SACCHC87_A_3 | LOGICCH | "C_SACCHC87_A_3" | SDCCH/8(6) of cell A                                 |
| C_SACCHC80_B_1 | LOGICCH | "C_SACCHC80_B_1" | SACCH/C8(7) associated with 3rd SDCCH/8(7) of cell A |
| C_SACCHC81_B_1 | LOGICCH | "C_SACCHC81_B_1" | SACCH/C8(0) associated with 1st SDCCH/8(0) of cell B |
| C_SACCHC82_B_1 | LOGICCH | "C_SACCHC82_B_1" | SACCH/C8(1) associated with 1st SDCCH/8(1) of cell B |
| C_SACCHC83_B_1 | LOGICCH | "C_SACCHC83_B_1" | SACCH/C8(2) associated with 1st SDCCH/8(2) of cell B |
| C_SACCHC84_B_1 | LOGICCH | "C_SACCHC84_B_1" | SACCH/C8(3) associated with 1st SDCCH/8(3) of cell B |
| C_SACCHC85_B_1 | LOGICCH | "C_SACCHC85_B_1" | SACCH/C8(4) associated with 1st SDCCH/8(4) of cell B |
| C_SACCHC86_B_1 | LOGICCH | "C_SACCHC86_B_1" | SACCH/C8(5) associated with 1st SDCCH/8(5) of cell B |
| C_SACCHC87_B_1 | LOGICCH | "C_SACCHC87_B_1" | SACCH/C8(6) associated with 1st SDCCH/8(6) of cell B |
| C_SACCHC80_B_2 | LOGICCH | "C_SACCHC80_B_2" | SACCH/C8(7) associated with 1st SDCCH/8(7) of cell B |
| C_SACCHC81_B_2 | LOGICCH | "C_SACCHC81_B_2" | SACCH/C8(0) associated with 2nd SDCCH/8(0) of cell B |
| C_SACCHC82_B_2 | LOGICCH | "C_SACCHC82_B_2" | SACCH/C8(1) associated with 2nd SDCCH/8(1) of cell B |
| C_SACCHC83_B_2 | LOGICCH | "C_SACCHC83_B_2" | SACCH/C8(2) associated with 2nd SDCCH/8(2) of cell B |
| C_SACCHC84_B_2 | LOGICCH | "C_SACCHC84_B_2" | SACCH/C8(3) associated with 2nd SDCCH/8(3) of cell B |
| C_SACCHC85_B_2 | LOGICCH | "C_SACCHC85_B_2" | SACCH/C8(4) associated with 2nd SDCCH/8(4) of cell B |
| C_SACCHC86_B_2 | LOGICCH | "C_SACCHC86_B_2" | SACCH/C8(5) associated with 2nd SDCCH/8(5) of cell B |
| C_SACCHC87_B_2 | LOGICCH | "C_SACCHC87_B_2" | SACCH/C8(6) associated with 2nd SDCCH/8(6) of cell B |
| C_SACCHC80_B_3 | LOGICCH | "C_SACCHC80_B_3" | SACCH/C8(7) associated with 2nd SDCCH/8(7) of cell B |
| C_SACCHC81_B_3 | LOGICCH | "C_SACCHC81_B_3" | SACCH/C8(0) associated with 3rd SDCCH/8(0) of cell B |
| C_SACCHC82_B_3 | LOGICCH | "C_SACCHC82_B_3" | SACCH/C8(1) associated with 3rd SDCCH/8(1) of cell B |
| C_SACCHC83_B_3 | LOGICCH | "C_SACCHC83_B_3" | SACCH/C8(2) associated with 3rd SDCCH/8(2) of cell B |
| C_SACCHC84_B_3 | LOGICCH | "C_SACCHC84_B_3" | SACCH/C8(3) associated with 3rd SDCCH/8(3) of cell B |
| C_SACCHC85_B_3 | LOGICCH | "C_SACCHC85_B_3" | SACCH/C8(4) associated with 3rd SDCCH/8(4) of cell B |
| C_SACCHC86_B_3 | LOGICCH | "C_SACCHC86_B_3" | SACCH/C8(5) associated with 3rd SDCCH/8(5) of cell B |
| C_SACCHC87_B_3 | LOGICCH | "C_SACCHC87_B_3" | SACCH/C8(6) associated with 3rd SDCCH/8(6) of cell B |
| C_SACCHC80_C_1 | LOGICCH | "C_SACCHC80_C_1" | SACCH/C8(7) associated with 3rd SDCCH/8(7) of cell B |
| C_SACCHC81_C_1 | LOGICCH | "C_SACCHC81_C_1" | SACCH/C8(0) associated with 1st SDCCH/8(0) of cell C |
| C_SACCHC82_C_1 | LOGICCH | "C_SACCHC82_C_1" | SACCH/C8(1) associated with 1st SDCCH/8(1) of cell C |
| C_SACCHC83_C_1 | LOGICCH | "C_SACCHC83_C_1" | SACCH/C8(2) associated with 1st SDCCH/8(2) of cell C |
| C_SACCHC84_C_1 | LOGICCH | "C_SACCHC84_C_1" | SACCH/C8(3) associated with 1st SDCCH/8(3) of cell C |
| C_SACCHC85_C_1 | LOGICCH | "C_SACCHC85_C_1" | SACCH/C8(4) associated with 1st SDCCH/8(4) of cell C |
| C_SACCHC86_C_1 | LOGICCH | "C_SACCHC86_C_1" | SACCH/C8(5) associated with 1st SDCCH/8(5) of cell C |
| C_SACCHC87_C_1 | LOGICCH | "C_SACCHC87_C_1" | SACCH/C8(6) associated with 1st SDCCH/8(6) of cell C |
| C_SACCHC80_C_2 | LOGICCH | "C_SACCHC80_C_2" | SACCH/C8(7) associated with 1st SDCCH/8(7) of cell C |
| C_SACCHC81_C_2 | LOGICCH | "C_SACCHC81_C_2" | SACCH/C8(0) associated with 2nd SDCCH/8(0) of cell C |
|                |         |                  | 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_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                                 |
| 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      |
| 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                                    |
| 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_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_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_H                   | LOGCH       | "C_FCCH_SCH_BCCH_CCCH_H"                   | FCCH_SCH_BCCH_CCCH type channel                             |
| 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_H_SDCCH4_SACCHC4    | LOGCH       | "C_FCCH_SCH_BCCH_CCCH_H_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                 |
| C_NxtButOneNxt   | SENDINGMODE | 4               | nothing is sent in the next but one paging sub block, then send the second message<br>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)                                                                                                          |
| C_Packet9600     | IA5String   | "C_Packet9600"  | packt access 9600 bit/s service (BS53)                                                                                                          |
| C_AltSpchData    | IA5String   | "C_AltSpchData" | alternate speech/data service (BS61)                                                                                                            |
| C_SpchData       | IA5String   | "C_SpchData"    | speech followed data service (BS81)                                                                                                             |
| C_I              | INTEGER     | 1               | I command of L 2                                                                                                                                |
| C_one            | INTEGER     | 1               | one frequency, no hopping                                                                                                                       |
| C_Immass         | BITSTRING   | '000'B          | activation for immediate assignment                                                                                                             |
| C_Ass            | BITSTRING   | '001'B          | activation for assignment                                                                                                                       |
| C_Asynho         | BITSTRING   | '010'B          | activation for non synchronous handover                                                                                                         |
| C_Synho          | BITSTRING   | '011'B          | activation for synchronous handover                                                                                                             |
| C_Rcv            | BITSTRING   | '101'B          | activation for receiving only                                                                                                                   |
| C_LocEndRel      | RelMode     | '01'O           | local end release                                                                                                                               |

|                       |         |             |                                                                             |
|-----------------------|---------|-------------|-----------------------------------------------------------------------------|
| C_MaxPwrLvlD          | INTEGER | 15          | Max power level for MS DCS                                                  |
| C_MaxPwrLvlG          | INTEGER | 19          | Max power level for MS GSM                                                  |
| C_rc_conditIEerror    | REJCAU  | '64'O       | reject cause:<br>Conditional IE error                                       |
| C_rc_congestion       | REJCAU  | '16'O       | reject cause:<br>congestion                                                 |
| C_rc_illegal_ms       | REJCAU  | '03'O       | reject cause:<br>illegal MS                                                 |
| C_rc_illegal_me       | REJCAU  | '06'O       | reject cause:<br>illegal ME                                                 |
| C_rc_imsiunknownhlr   | REJCAU  | '02'O       | reject cause:<br>IMSI unknown in HLR                                        |
| C_rc_imsiunknownvlr   | REJCAU  | '04'O       | reject cause:<br>IMSI unknown in VLR                                        |
| C_rc_invalidmaninfo   | REJCAU  | '60'O       | reject cause:<br>invalid mandatory information                              |
| C_rc_LAnotallowed     | REJCAU  | '0C'O       | reject cause:<br>LocationArea is not allowed                                |
| C_rc_networkfailure   | REJCAU  | '11'O       | reject cause:<br>network failure                                            |
| C_rc_notidentified    | REJCAU  | '26'O       | reject cause:<br>can not be identified                                      |
| C_rc_plmn_not         | REJCAU  | '0B'O       | reject cause:<br>PLMN not allowed                                           |
| C_rc_protocolerror    | REJCAU  | '6F'O       | reject cause:<br>Protocol error unspecified                                 |
| C_rc_reqservoptnotsub | REJCAU  | '21'O       | reject cause:<br>requested service option not<br>subscribed                 |
| C_rc_roamingnot       | REJCAU  | '0D'O       | reject cause:<br>Roaming not allowed                                        |
| C_Reestablishment     | B_1     | '0'B        | Reestablishment allowed                                                     |
| C_noReestablishment   | B_1     | '1'B        | No reestablishment allowed                                                  |
| C_SlotNU              | SN      | '111'B      | Slot Number not used                                                        |
| C_CellReselectHys12   | INTEGER | 6           | Cell Reselection Hysteresis value<br>12db                                   |
| C_CellReselectHys4    | INTEGER | 2           | Cell Reselection Hysteresis value<br>4db                                    |
| C_RI_alternate        | B_8     | '11010001'B | Bcap repeat indicator for alternate<br>(circular selection)                 |
| C_RI_follow           | B_8     | '11010011'B | Bcap repeat indicator for<br>successive (sequential selection)              |
| C_SIMIn               | BOOLEAN | FALSE       | SIM is always inserted in a test<br>case                                    |
| C_SIMneedRmv          | BOOLEAN | TRUE        | Removal of SIM is needed in a<br>test case (SIM is not always<br>inserted.) |
| C_Yes                 | BOOLEAN | TRUE        |                                                                             |
| C_No                  | BOOLEAN | FALSE       |                                                                             |
| C_Start_Imsi          | INTEGER | 1           | Test case body starts without<br>TMSI                                       |
| C_Start_Tmsi          | INTEGER | 2           | Test case body starts with<br>Tmsi_01                                       |
| C_Start_TmsiOff       | INTEGER | 5           | Test case body starts with<br>Tmsi_01. MS has been<br>deactivated.          |
| C_Start_Rej           | INTEGER | 3           | Test case body starts with LAI<br>deleted. MS has been<br>deactivated.      |
| C_Start_PLMNnot       | INTEGER | 4           | Test case body starts with PLMN<br>not allowed                              |
| C_Test_fh             | INTEGER | 1           | Test case with possibly frequency<br>hopping                                |
| C_Test_nfh            | INTEGER | 2           | Test case with no frequency<br>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_synchronized    | B_2     | '00'B  | non-synchronised                                                        |
| C_synchronised        | B_2     | '01'B  | synchronised                                                            |
| C_pre_synchronized    | B_2     | '10'B  | pre-synchronised                                                        |
| C_pseudo_synchronized | 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_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_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)          |
| 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                                                                                          |
| 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    | Value for Starting time (1.1sec=238 frames) for HO testcase TC_26_6_5_1, TC_26_6_5_4_2                     |
| 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_struct_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 | Signalling access NA (sec.11.8.1.5.1)                                                                      |
| C_I440_450           | B_3         | '001'B | Signalling access I440/450                                                                                 |
| C_X21                | B_3         | '010'B | Signalling access X21                                                                                      |
| C_X28_unui           | B_3         | '100'B | Signalling access X28 U NUI                                                                                |
| C_X28_nond           | B_3         | '101'B | Signalling access X28 non dedicated                                                                        |
| C_X32                | B_3         | '110'B | Signalling access X32                                                                                      |
| C_Synchronous        | B_1         | '0'B   | Synchronous                                                                                                |

|                                    |             |           |                               |
|------------------------------------|-------------|-----------|-------------------------------|
| C_Asynchronous                     | B_1         | '1'B      | Asynchronous                  |
| C_stopbit_NA                       | B_1         | '0'B      | Number of Stop bits NA        |
| C_stopbit_dontcare                 | B_1         | '?'B      | Number of Stop bits not care  |
| C_databit_NA                       | B_1         | '1'B      | Number of Data bits not care  |
| C_databit_dontcare                 | B_1         | '?'B      | Number of Data bits NA        |
| C_300bs                            | B_4         | '0001'B   | User rate 300 bs              |
| C_1200bs                           | B_4         | '0010'B   | User rate 1200 bs             |
| C_120075bs                         | B_4         | '0111'B   | User rate 1200/75 bs          |
| C_2400bs                           | B_4         | '0011'B   | User rate 2400 bs             |
| C_4800bs                           | B_4         | '0100'B   | User rate 4800 bs             |
| C_9600bs                           | B_4         | '0101'B   | User rate 9600 bs             |
| 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_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                            | HSN         | '000000'B | cyclic hopping                |
| 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       |                               |
| max10TimesIncrement                | Asn1Integer | 8191      |                               |
| max10TimesIncrementPerDataInterval | Asn1Integer | 8191      |                               |
| max10TimesInitialTime              | Asn1Integer | 8191      |                               |
| max100TimesScalingFactor           | Asn1Integer | 8191      |                               |
| max10TimesTimeInterval             | Asn1Integer | 8191      |                               |
| max10TimesUnitsPerTime             | Asn1Integer | 8191      |                               |

**Detailed Comments:**

**Test case variable declarations**

| <b>Test Case Variable Declarations</b> |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                            |
|----------------------------------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| Variable Name                          | Type          | Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Comments                                                   |
| TCV_CC                                 | BOOLEAN       | TSPC_Serv_TS11 OR<br>TSPC_Serv_TS12 OR<br>TSPC_Serv_TS61 OR<br>TSPC_Serv_TS62 OR<br>TSPC_Serv_BS21 OR<br>TSPC_Serv_BS22 OR<br>TSPC_Serv_BS23 OR<br>TSPC_Serv_BS24 OR<br>TSPC_Serv_BS25 OR<br>TSPC_Serv_BS26 OR<br>TSPC_Serv_BS31 OR<br>TSPC_Serv_BS32 OR<br>TSPC_Serv_BS33 OR<br>TSPC_Serv_BS34 OR<br>TSPC_Serv_BS41 OR<br>TSPC_Serv_BS42 OR<br>TSPC_Serv_BS43 OR<br>TSPC_Serv_BS44 OR<br>TSPC_Serv_BS45 OR<br>TSPC_Serv_BS46 OR<br>TSPC_Serv_BS51 OR<br>TSPC_Serv_BS52 OR<br>TSPC_Serv_BS53 OR<br>TSPC_Serv_BS61 OR<br>TSPC_Serv_BS81 |                                                            |
| TCV_AssCmd                             | ASS_CMD_PDU   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | to hold ASSIGNMENT<br>COMMAND PDU                          |
| 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_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<br>Descriptor for gsm              |
| TCV_CAdcs                              | CCHD          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | To compute Cell Channel<br>Descriptor for dcs              |
| TCV_CB1                                | OCTETSTRING   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | store SMSB block data                                      |
| TCV_CB2                                | OCTETSTRING   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | store SMSB block data                                      |
| TCV_CB3                                | OCTETSTRING   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | store SMSB block data                                      |
| TCV_CB4                                | OCTETSTRING   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | store SMSB block data                                      |
| TCV_CE                                 | CE            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                            |
| TCV_Cchg                               | INTEGER       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CCCH_GROUP                                                 |
| TCV_Ccd0A                              | CCD           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | a copy of control channel<br>description in use for cell A |
| TCV_Ccd0B                              | CCD           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | a copy of control channel<br>description in use for cell B |
| TCV_Ccd0C                              | CCD           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | a copy of control channel<br>description in use for cell C |
| TCV_Ccd0D                              | CCD           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | a copy of control channel<br>description in use for cell D |
| TCV_Ccd0E                              | CCD           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | a copy of control channel<br>description in use for cell E |
| TCV_Ccd0F                              | CCD           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | a copy of control channel<br>description in use for cell F |
| TCV_Ccd0G                              | CCD           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | a copy of control channel<br>description in use for cell G |
| TCV_Ccd0H                              | CCD           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | a copy of control channel<br>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_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_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.<br>corresponding to a DTMF tone                                    |
| TCV_chd1            | CHD         |          | to hold channel description IE                                                           |
| TCV_cchd1           | CCHD        |          | to hold cell channel description IE                                                      |
| TCV_ChMod           | CHMOD       |          | to hold channel mode IE                                                                  |
| TCV_ChModb          | CHMOD       |          | to hold channel mode IE for second mode in dual mode services                            |
| TCV_Tchtype         | CH_TDMA     | '00001'B | Traffic channel type and TDMA offset in channel description IE                           |
| TCV_chtype          | CH_TDMA     |          | to channel type and TDMA offset in channel description IE                                |
| TCV_cksn            | BITSTRING   |          | to hold the CKSN.                                                                        |
| TCV_Cnt             | INTEGER     |          | general loop counter                                                                     |
| TCV_Cnt1            | INTEGER     |          | general loop counter                                                                     |
| TCV_Cnt2            | INTEGER     |          | general loop counter                                                                     |
| TCV_Cntstart        | BOOLEAN     | FALSE    | general loop counter start decision                                                      |
| TCV_Cntref          | INTEGER     |          | Reference for general loop counter                                                       |
| TCV_CphAlg          | BITSTRING   |          | ciphering algorithm                                                                      |
| TCV_CphKey          | BITSTRING   |          | ciphering key                                                                            |
| TCV_CphMd           | CPHMS       |          | ciphering mode setting                                                                   |
| TCV_CPDataRetx      | INTEGER     |          | Number of CP Data retransmissions for SMS                                                |
| TCV_ChRate          | IA5String   | C_Full   | to hold channel rate                                                                     |
| TCV_ChRate1         | IA5String   | C_Full   | to hold channel rate                                                                     |
| TCV_counter_c       | INTEGER     |          | loop counter c                                                                           |
| TCV_counter_k       | INTEGER     |          | loop counter k                                                                           |
| TCV_Fk              | INTEGER     |          | to hold an interval between events                                                       |
| TCV_flist           | OCTETSTRING |          | Frequency List, used in EGSM for IE "frequency list" or "frequency short list"           |
| TCV_flistl          | OCTETSTRING |          | 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_FnAss           | FN          |          | to hold the frame number in AssCmd statement                                             |
| TCV_FollowingOctets | OCTETSTRING |          | Contains the octets following the invoke id                                              |
| TCV_Horf            | HORF        |          | Variable for HO reference in HO-                                                         |

|                     |              |         |                                                                           |
|---------------------|--------------|---------|---------------------------------------------------------------------------|
| TCV_HoCMD           | HO_CMD_PDU   |         | Messages of HO cases.                                                     |
| TCV_Hrf             | HORF         |         | to hold handover PDU                                                      |
| TCV_kcnt            | INTEGER      |         | to hold handover reference 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_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_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                                              |
| TCV_Rqr             | RQR          |         | to hold the request reference                                             |
| TCV_Rqr9            | RQR          |         | to hold the request reference differing from TCV_Rqr                      |
| TCV_Rqr10           | RQR          |         | to hold the request reference differing from TCV_Rqr, TCV_Rqr9            |
| TCV_Rqr11           | RQR          |         | to hold the request reference differing from TCV_Rqr, TCV_Rqr9, TCV_Rqr10 |
| TCV_Rr              | BITSTRING    |         | to hold the random request reference                                      |
| TCV_Rr1             | BITSTRING    |         | to hold the random reference                                              |
| TCV_Service         | SERVICES     |         | to hold basic service selected                                            |
| TCV_Service1        | SERVICES     |         | to hold basic service selected                                            |
| TCV_Setup_mo        | SETUP_MO_PDU |         | to hold the SETUP PDU (MO)                                                |
| TCV_Setup_mo1       | SETUP_MO_PDU |         | to hold the SETUP PDU (MO)                                                |
| TCV_Setup_mt        | SETUP_MT_PDU |         | to hold the SETUP PDU (MT)                                                |
| TCV_Setup_mt1       | SETUP_MT_PDU |         | to hold the 2nd SETUP PDU (MT)                                            |
| TCV_2ndtest         | BOOLEAN      |         | 2nd test required in TC_11_1_1                                            |
| TCV_Esetup          | ESETUP_PDU   |         | to hold the emergency SETUP PDU                                           |
| TCV_Esetup1         | ESETUP_PDU   |         | to hold the emergency SETUP PDU                                           |
| TCV_Ecall           | BOOLEAN      | FALSE   | it is set to TRUE, if the service under test is emergency call            |
| TCV_slot            | SN           |         | To hold the default slot used during the entire TC.                       |
| TCV_sl2             | SN           |         | To hold a second working slot number.                                     |

|                   |                 |                  |                                                                  |
|-------------------|-----------------|------------------|------------------------------------------------------------------|
| TCV_Sres          | OCTETSTRING     |                  | to hold the SRES returned                                        |
| TCV_sysinf5       | SYSINFO5_PDU    |                  | to hold the SysInfo5 PDU                                         |
| TCV_sysinfo5      | SYSINFO5_PDU    |                  | to hold the SysInfo5 PDU for cell A                              |
| TCV_sysinfo5bis   | SYSINFO5bis_PDU |                  | to hold the SysInfo5bis PDU for cell A                           |
| TCV_sysinfo5_B    | SYSINFO5_PDU    |                  | to hold the SysInfo5 PDU for cell B                              |
| TCV_sysinfo5_C    | SYSINFO5_PDU    |                  | to hold the SysInfo5 PDU for cell c                              |
| TCV_sysinfo5_D    | SYSINFO5_PDU    |                  | to hold the SysInfo5 PDU for cell D                              |
| TCV_sysinfo5_E    | SYSINFO5_PDU    |                  | to hold the SysInfo5 PDU for cell E                              |
| TCV_sysinfo5_F    | SYSINFO5_PDU    |                  | to hold the SysInfo5 PDU for cell F                              |
| TCV_sysinfo5_G    | SYSINFO5_PDU    |                  | to hold the SysInfo5 PDU for cell G                              |
| TCV_sysinfo5_H    | SYSINFO5_PDU    |                  | to hold the SysInfo5 PDU for cell H                              |
| TCV_sysinfo5bis_A | SYSINFO5bis_PDU |                  | to hold the SysInfo5bis PDU for cell A(TC_26_10_2_4_1)           |
| TCV_sysinfo5bis_B | SYSINFO5bis_PDU |                  | to hold the SysInfo5bis PDU for cell B                           |
| TCV_sysinf6       | SYSINFO6_PDU    |                  | to hold the SysInfo6 PDU                                         |
| TCV_sysinfo6      | SYSINFO6_PDU    |                  | to hold the SysInfo6 PDU for cell A                              |
| TCV_sysinfo6_B    | SYSINFO6_PDU    |                  | to hold the SysInfo6 PDU for cell B                              |
| TCV_sysinfo6_C    | SYSINFO6_PDU    |                  | to hold the SysInfo6 PDU for cell C                              |
| TCV_sysinfo6_D    | SYSINFO6_PDU    |                  | to hold the SysInfo6 PDU for cell D                              |
| TCV_sysinfo6_E    | SYSINFO6_PDU    |                  | to hold the SysInfo6 PDU for cell E                              |
| TCV_sysinfo6_F    | SYSINFO6_PDU    |                  | to hold the SysInfo6 PDU for cell F                              |
| TCV_sysinfo6_G    | SYSINFO6_PDU    |                  | to hold the SysInfo6 PDU for cell G                              |
| TCV_sysinfo6_H    | SYSINFO6_PDU    |                  | to hold the SysInfo6 PDU for cell H                              |
| TCV_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.               |
| TCV_ia_ts         | BITSTRING       |                  | Time slot for channel description in immediate assignment        |
| TCV_tsc           | TSC             |                  | To hold the default training sequence used during the entire TC. |
| TCV_Td            | OCTETSTRING     |                  | to hold timing difference                                        |
| TCV_Time          | INTEGER         |                  | to hold the measured value of T310 or T305 or T308               |
| TCV_TI            | TI              |                  | to hold the transaction ID for MO calls in sending evets         |
| TCV_TI0           | TI              |                  | to hold the transaction ID for MO calls in receiving evets       |
| TCV_TI1           | TI              |                  | to hold the transaction ID                                       |
| TCV_TI2           | TI              |                  | to hold the transaction ID                                       |
| TCV_TI3           | TI              |                  | to hold the transaction ID                                       |
| TCV_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     | "dummy" | Cell Broadcast channel                                              |
| TCV_Tpmr                  | MR          |         | TP message reference                                                |
| TCV_TPOA1                 | BCDN        |         | TP originating address digits                                       |
| TCV_TPOA2                 | BCDN        |         | TP originating address digits                                       |
| TCV_TPDA                  | BCDN        |         | TP destination address digits                                       |
| TCV_RPOA_MT               | BCDN        |         | RP originating address digits for MT short messages                 |
| TCV_RPOA_MO               | BCDN        |         | RP originating address digits for MO short messages                 |
| TCV_RPOA1                 | BCDN        |         | RP originating address digits for MT short messages                 |
| TCV_RPOA2                 | BCDN        |         | RP originating address digits for MT short messages                 |
| TCV_RPDA_MT               | BCDN        |         | RP destination address digits for MT short messages                 |
| TCV_RPDA_MO               | BCDN        |         | RP destination address digits for MO short messages                 |
| TCV_SMTTypeM              | INTEGER     |         | Replace short message type                                          |
| TCV_SMTTypeN              | INTEGER     |         | Replace short message type                                          |
| TCV_SMcntns               | OCTETSTRING |         | short message contents                                              |
| TCV_SMSCBpack             | SMSCBpack   |         | CB message contents                                                 |
| TCV_freq                  | FRQPARA     |         | to hold Freq type constraints                                       |
| TCV_srv                   | SERVICES    |         | to hold MT service                                                  |
| TCV_ur                    | B_4         |         | to hold user rate                                                   |
| TCV_itc                   | B_3         |         | to hold information transfer capability                             |
| TCV_sacp                  | B_3         |         | to hold service access protocol                                     |
| TCV_ce                    | B_2         |         | to hold connection element                                          |
| TCV_ce1                   | B_2         |         | to hold connection element                                          |
| TCV_ce3                   | B_2         |         | to hold connection element                                          |
| TCV_sa                    | B_1         |         | to hold synchronous/asynchronous                                    |
| TCV_ir                    | B_2         |         | to hold intermediate rate                                           |
| TCV_uil1p                 | B_2         |         | to hold user information layer 1 protocol                           |
| TCV_modemt                | B_5         |         | to hold modem type                                                  |
| 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_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 |
| <b>Detailed Comments:</b> |             |         |                                                                     |

## PCO declarations

| PCO Declarations                                                                                                                                                                                                                                                                                                                                                                                                                     |        |      |          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|----------|
| PCO Name                                                                                                                                                                                                                                                                                                                                                                                                                             | Type   | Role | Comments |
| L                                                                                                                                                                                                                                                                                                                                                                                                                                    | SAP0_3 | LT   |          |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                            |        |      |          |
| 1. The PCO consists of multiple SAPs: the SAP0 and SAP3.<br>2. The lower tester (LT) is the user of the data link layer service.<br>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.<br>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 Declarations                                                                                                                                                                                                                                                                                                                                                                          |                |      |                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------|-----------------------------|
| Timer Name                                                                                                                                                                                                                                                                                                                                                                                  | Duration       | Unit | Comments                    |
| T_dly                                                                                                                                                                                                                                                                                                                                                                                       |                | ms   | general purpose delay timer |
| T_dly1                                                                                                                                                                                                                                                                                                                                                                                      |                | ms   | general purpose delay timer |
| T_dly2                                                                                                                                                                                                                                                                                                                                                                                      |                | ms   | general purpose delay timer |
| T_dlyAss                                                                                                                                                                                                                                                                                                                                                                                    | 5000           | ms   | AssCmd timer, 1)            |
| T_guard                                                                                                                                                                                                                                                                                                                                                                                     | 300            | s    | guard timer                 |
| T_release                                                                                                                                                                                                                                                                                                                                                                                   | C_release_time | s    | release timer               |
| <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 ASSIGNMENT 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 definitions

## TTCN ASP Type definitions

| 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                                                                                                                                 |          |
| logic_ch                  | LOGICCH                                                                                                                               |          |
| establish_mode            | EstMode                                                                                                                               |          |
| <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                                                                                                                                        |          |
| logic_ch                  | LOGICCH                                                                                                                                      |          |
| establish_mode            | EstMode                                                                                                                                      |          |
| fn                        | FN                                                                                                                                           |          |
| <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                                                                                                                                                                                                               |          |
| logic_ch                  | LOGICCH                                                                                                                                                                                                             |          |
| establish_mode            | EstMode                                                                                                                                                                                                             |          |
| msg                       | CMS_RQ_PDU                                                                                                                                                                                                          |          |
| fn                        | FN                                                                                                                                                                                                                  |          |
| <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                                                                                                                                                                                                                      |          |
| logic_ch                  | LOGICCH                                                                                                                                                                                                                    |          |
| establish_mode            | EstMode                                                                                                                                                                                                                    |          |
| msg                       | LUP_RQ_PDU                                                                                                                                                                                                                 |          |
| fn                        | FN                                                                                                                                                                                                                         |          |
| <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                                                                                                                                                                                                                   |          |
| logic_ch                  | LOGICCH                                                                                                                                                                                                                 |          |
| establish_mode            | EstMode                                                                                                                                                                                                                 |          |
| msg                       | IMSID_IN_PDU                                                                                                                                                                                                            |          |
| fn                        | FN                                                                                                                                                                                                                      |          |
| <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                                                                                                                                                                                                            |          |
| logic_ch                  | LOGICCH                                                                                                                                                                                                          |          |
| establish_mode            | EstMode                                                                                                                                                                                                          |          |
| msg                       | PG_RES_PDU                                                                                                                                                                                                       |          |
| fn                        | FN                                                                                                                                                                                                               |          |
| <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                                                                                                                                                                                                                       |          |
| logic_ch                  | LOGICCH                                                                                                                                                                                                                     |          |
| establish_mode            | EstMode                                                                                                                                                                                                                     |          |
| msg                       | CMRE_RQ_PDU                                                                                                                                                                                                                 |          |
| fn                        | FN                                                                                                                                                                                                                          |          |
| <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                                                                                                 |          |
| logic_ch                  | LOGICCH                                                                                               |          |
| establish_mode            | EstMode                                                                                               |          |
| <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                                                                                                                                                 |          |
| logic_ch                  | LOGICCH                                                                                                                                               |          |
| release_mode              | RelMode                                                                                                                                               |          |
| outstanding_indicator     | BOOLEAN                                                                                                                                               |          |
| fn                        | FN                                                                                                                                                    |          |
| <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                                                                                |          |
| logic_ch                  | LOGICCH                                                                              |          |
| fn                        | FN                                                                                   |          |
| msg                       | CH_RQ_PDU                                                                            |          |
| <b>Detailed Comments:</b> |                                                                                      |          |

| ASP Type Definition       |                                                                                      |          |
|---------------------------|--------------------------------------------------------------------------------------|----------|
| <b>ASP Name:</b>          | DL_RaInHoacc (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                                                                                |          |
| logic_ch                  | LOGICCH                                                                              |          |
| msg                       | HOACC_PDU                                                                            |          |
| fn                        | FN                                                                                   |          |
| <b>Detailed Comments:</b> |                                                                                      |          |

| ASP Type Definition       |                                                                                                                               |          |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>ASP Name:</b>          | DL_UdatRqImmass (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                                                                                                                         |          |
| logic_ch                  | LOGICCH                                                                                                                       |          |
| msg                       | IMMASS_PDU                                                                                                                    |          |
| <b>Detailed Comments:</b> |                                                                                                                               |          |

| ASP Type Definition       |                                                                                                                                                        |          |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>ASP Name:</b>          | DL_UdatRqImmass_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                                                                                                                                                  |          |
| logic_ch                  | LOGICCH                                                                                                                                                |          |
| pgg                       | PGG                                                                                                                                                    |          |
| msg                       | IMMASS_PDU                                                                                                                                             |          |
| <b>Detailed Comments:</b> |                                                                                                                                                        |          |

| ASP Type Definition       |                                                                                                                                        |          |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>ASP Name:</b>          | DL_UdatRqImmassx (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                                                                                                                                  |          |
| logic_ch                  | LOGICCH                                                                                                                                |          |
| msg                       | IMMASSX_PDU                                                                                                                            |          |
| <b>Detailed Comments:</b> |                                                                                                                                        |          |

| ASP Type Definition       |                                                                                                                                                                 |          |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>ASP Name:</b>          | DL_UdatRqImmassx_sp<br>(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                                                                                                                                                           |          |
| logic_ch                  | LOGICCH                                                                                                                                                         |          |
| pgg                       | PGG                                                                                                                                                             |          |
| msg                       | IMMASSX_PDU                                                                                                                                                     |          |
| <b>Detailed Comments:</b> |                                                                                                                                                                 |          |

| ASP Type Definition       |                                                                                                                                      |          |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>ASP Name:</b>          | DL_UdatRqImmassRej (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                                                                                                                                |          |
| logic_ch                  | LOGICCH                                                                                                                              |          |
| msg                       | IMMASS_REJ_PDU                                                                                                                       |          |
| <b>Detailed Comments:</b> |                                                                                                                                      |          |

| ASP Type Definition       |                                                                                                                                                               |          |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>ASP Name:</b>          | DL_UdatRqImmassRej_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                                                                                                                                                         |          |
| logic_ch                  | LOGICCH                                                                                                                                                       |          |
| pgg                       | PGG                                                                                                                                                           |          |
| msg                       | IMMASS_REJ_PDU                                                                                                                                                |          |
| <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                                                                                                                   |          |
| logic_ch                                                                         | LOGICCH                                                                                                                 |          |
| msg                                                                              | MSR_RPT_PDU                                                                                                             |          |
| fn                                                                               | FN                                                                                                                      |          |
| <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                                                                                                    |          |
| logic_ch                  | LOGICCH                                                                                                  |          |
| 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                                                                                                                          |          |
| logic_ch                  | LOGICCH                                                                                                                        |          |
| pgg                       | PGG                                                                                                                            |          |
| 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                                                                                                                          |          |
| logic_ch                  | LOGICCH                                                                                                                        |          |
| pgg                       | PGG                                                                                                                            |          |
| 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                                                                                                                          |          |
| logic_ch                  | LOGICCH                                                                                                                        |          |
| pgg                       | PGG                                                                                                                            |          |
| msg                       | PG3_RQ_PDU                                                                                                                     |          |
| <b>Detailed Comments:</b> |                                                                                                                                |          |

| ASP Type Definition       |                                                                                                                                              |          |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>ASP Name:</b>          | DL_UdatRqSchinfo<br>(DL_UNIT_DATA_REQUEST_SYNCHRONIZATION_CHANNEL_INFORMATION)                                                               |          |
| <b>PCO Type:</b>          | SAPO_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                                                                                                                                        |          |
| logic_ch                  | LOGICCH                                                                                                                                      |          |
| 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>          | SAPO_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                                                                                                                              |          |
| logic_ch                  | LOGICCH                                                                                                                            |          |
| 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>          | SAPO_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                                                                                                          |          |
| logic_ch                  | LOGICCH                                                                                                        |          |
| 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>          | SAPO_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                                                                                                                              |          |
| logic_ch                  | LOGICCH                                                                                                                            |          |
| 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>          | SAPO_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                                                                                                                                 |          |
| logic_ch                  | LOGICCH                                                                                                                               |          |
| msg                       | SYSINFO2bis_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                                                                                                                              |          |
| logic_ch                  | LOGICCH                                                                                                                            |          |
| 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                                                                                                                              |          |
| logic_ch                  | LOGICCH                                                                                                                            |          |
| 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                                                                                                                              |          |
| logic_ch                  | LOGICCH                                                                                                                            |          |
| 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                                                                                                                                 |          |
| logic_ch                  | LOGICCH                                                                                                                               |          |
| msg                       | SYSINFO5bis_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                                                                                                                              |          |
| logic_ch                  | LOGICCH                                                                                                                            |          |
| msg                       | SYSINFO6_PDU                                                                                                                       |          |
| <b>Detailed Comments:</b> |                                                                                                                                    |          |

| ASP Type Definition       |                                                                                                                       |          |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------|----------|
| <b>ASP Name:</b>          | DL_UdatnCImChn (DL_UdatnINDICATION_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                                                                                                                 |          |
| logic_ch                  | LOGICCH                                                                                                               |          |
| msg                       | CLM_CHN_PDU                                                                                                           |          |
| fn                        | FN                                                                                                                    |          |
| <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                                                                                                                     |          |
| logic_ch                  | LOGICCH                                                                                                                   |          |
| 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                      | SAPID                                                                                                                  |          |
| logic_ch                  | LOGICCH                                                                                                                |          |
| msg                       | ASS_COM_PDU                                                                                                            |          |
| fn                        | FN                                                                                                                     |          |
| <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                      | SAPID                                                                                                                 |          |
| logic_ch                  | LOGICCH                                                                                                               |          |
| msg                       | ASSFL_PDU                                                                                                             |          |
| fn                        | FN                                                                                                                    |          |
| <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                      | SAPID                                                                                    |          |
| logic_ch                  | LOGICCH                                                                                  |          |
| msg                       | CMS_RQ_PDU                                                                               |          |
| fn                        | FN                                                                                       |          |
| <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                                                                                                                      |          |
| logic_ch                  | LOGICCH                                                                                                                    |          |
| 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                                                                                                                              |          |
| logic_ch                  | LOGICCH                                                                                                                            |          |
| msg                       | CHMMO_ACK_PDU                                                                                                                      |          |
| fn                        | FN                                                                                                                                 |          |
| <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                                                                                                                  |          |
| logic_ch                  | LOGICCH                                                                                                                |          |
| 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                                                                                                                  |          |
| logic_ch                  | LOGICCH                                                                                                                |          |
| 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                                                                                                                         |          |
| logic_ch                  | LOGICCH                                                                                                                       |          |
| 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                                                                                                                                 |          |
| logic_ch                  | LOGICCH                                                                                                                               |          |
| 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                                                                                                                      |          |
| logic_ch                  | LOGICCH                                                                                                                    |          |
| msg                       | CPHM_COM_PDU                                                                                                               |          |
| fn                        | FN                                                                                                                         |          |
| <b>Detailed Comments:</b> |                                                                                                                            |          |

| ASP Type Definition       |                                                                                                                     |          |
|---------------------------|---------------------------------------------------------------------------------------------------------------------|----------|
| <b>ASP Name:</b>          | DL_DatInCImChn (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                                                                                                               |          |
| logic_ch                  | LOGICCH                                                                                                             |          |
| msg                       | CLM_CHN_PDU                                                                                                         |          |
| fn                        | FN                                                                                                                  |          |
| <b>Detailed Comments:</b> |                                                                                                                     |          |

| <b>ASP Type Definition</b> |                                                                                                                          |          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------|----------|
| <b>ASP Name:</b>           | DL_DatRqCImEnq (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                                                                                                                    |          |
| logic_ch                   | LOGICCH                                                                                                                  |          |
| msg                        | CLM_ENQ_PDU                                                                                                              |          |
| <b>Detailed Comments:</b>  |                                                                                                                          |          |

| <b>ASP Type Definition</b> |                                                                                                                               |          |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------|
| <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                                                                                                                         |          |
| logic_ch                   | LOGICCH                                                                                                                       |          |
| msg                        | FRQRE_PDU                                                                                                                     |          |
| <b>Detailed Comments:</b>  |                                                                                                                               |          |

| <b>ASP Type Definition</b> |                                                                                                                         |          |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------|----------|
| <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                                                                                                                   |          |
| logic_ch                   | LOGICCH                                                                                                                 |          |
| msg                        | HO_CMD_PDU                                                                                                              |          |
| <b>Detailed Comments:</b>  |                                                                                                                         |          |

| <b>ASP Type Definition</b>                                                                                                   |                                                                                                                      |          |
|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------|
| <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                                                                                                                |          |
| logic_ch                                                                                                                     | LOGICCH                                                                                                              |          |
| msg                                                                                                                          | HO_COM_PDU                                                                                                           |          |
| fn                                                                                                                           | FN                                                                                                                   |          |
| <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                                                                                                               |          |
| logic_ch                  | LOGICCH                                                                                                             |          |
| msg                       | HOFL_PDU                                                                                                            |          |
| fn                        | FN                                                                                                                  |          |
| <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                                                                                                                       |          |
| logic_ch                  | LOGICCH                                                                                                                     |          |
| 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                                                                                                     |          |
| logic_ch                  | LOGICCH                                                                                                   |          |
| msg                       | RRST_PDU                                                                                                  |          |
| fn                        | FN                                                                                                        |          |
| <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                                                                                                                        |          |
| logic_ch                  | LOGICCH                                                                                                                      |          |
| 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                                                                                                                         |          |
| logic_ch                  | LOGICCH                                                                                                                       |          |
| 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                                                                                                                      |          |
| logic_ch                  | LOGICCH                                                                                                                    |          |
| msg                       | AUTH_RES_PDU                                                                                                               |          |
| fn                        | FN                                                                                                                         |          |
| <b>Detailed Comments:</b> |                                                                                                                            |          |

| ASP Type Definition       |                                                                                                                          |          |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------|----------|
| <b>ASP Name:</b>          | DL_DatRqCmsAcq (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                                                                                                                    |          |
| logic_ch                  | LOGICCH                                                                                                                  |          |
| 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                                                                                                                    |          |
| logic_ch                  | LOGICCH                                                                                                                  |          |
| msg                       | CMS_REJ_PDU                                                                                                              |          |
| <b>Detailed Comments:</b> |                                                                                                                          |          |

| ASP Type Definition       |                                                                                                              |          |
|---------------------------|--------------------------------------------------------------------------------------------------------------|----------|
| <b>ASP Name:</b>          | DL_DatRqAbrt (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                                                                                                        |          |
| logic_ch                  | LOGICCH                                                                                                      |          |
| 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                                                                                                                   |          |
| logic_ch                  | LOGICCH                                                                                                                 |          |
| msg                       | ID_RQ_PDU                                                                                                               |          |
| <b>Detailed Comments:</b> |                                                                                                                         |          |

| ASP Type Definition       |                                                                                                                      |          |
|---------------------------|----------------------------------------------------------------------------------------------------------------------|----------|
| <b>ASP Name:</b>          | DL_DatInIdRes (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                                                                                                                |          |
| logic_ch                  | LOGICCH                                                                                                              |          |
| msg                       | ID_RES_PDU                                                                                                           |          |
| fn                        | FN                                                                                                                   |          |
| <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                                                                                                                           |          |
| logic_ch                  | LOGICCH                                                                                                                         |          |
| msg                       | LUP_ACP_PDU                                                                                                                     |          |
| <b>Detailed Comments:</b> |                                                                                                                                 |          |

| ASP Type Definition       |                                                                                                                                 |          |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>ASP Name:</b>          | DL_DatRqLupAcpErr (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                                                                                                                           |          |
| logic_ch                  | LOGICCH                                                                                                                         |          |
| 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                                                                                                                           |          |
| logic_ch                  | LOGICCH                                                                                                                         |          |
| 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                                                                                                     |          |
| logic_ch                  | LOGICCH                                                                                                   |          |
| msg                       | MMST_PDU                                                                                                  |          |
| fn                        | FN                                                                                                        |          |
| <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                                                                                                                            |          |
| logic_ch                  | LOGICCH                                                                                                                          |          |
| 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                                                                                                                         |          |
| logic_ch                  | LOGICCH                                                                                                                       |          |
| msg                       | TMSIRE_COM_PDU                                                                                                                |          |
| fn                        | FN                                                                                                                            |          |
| <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                                                                                                           |          |
| logic_ch                  | LOGICCH                                                                                                         |          |
| 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                                                                                                       |          |
| logic_ch                  | LOGICCH                                                                                                     |          |
| msg                       | ALERT_PDU                                                                                                   |          |
| fn                        | FN                                                                                                          |          |
| <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                                                                                                             |          |
| logic_ch                  | LOGICCH                                                                                                           |          |
| msg                       | CALL_CO_PDU                                                                                                       |          |
| fn                        | FN                                                                                                                |          |
| <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                                                                                                                  |          |
| logic_ch                  | LOGICCH                                                                                                                |          |
| 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                                                                                                          |          |
| logic_ch                  | LOGICCH                                                                                                        |          |
| 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                                                                                                          |          |
| logic_ch                  | LOGICCH                                                                                                        |          |
| 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                                                                                                      |          |
| logic_ch                  | LOGICCH                                                                                                    |          |
| msg                       | CONN_PDU                                                                                                   |          |
| fn                        | FN                                                                                                         |          |
| <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                                                                                                                      |          |
| logic_ch                  | LOGICCH                                                                                                                    |          |
| 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                                                                                                                    |          |
| logic_ch                  | LOGICCH                                                                                                                  |          |
| msg                       | CONN_ACK_PDU                                                                                                             |          |
| fn                        | FN                                                                                                                       |          |
| <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                                                                                                             |          |
| logic_ch                  | LOGICCH                                                                                                           |          |
| 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                                                                                                             |          |
| logic_ch                  | LOGICCH                                                                                                           |          |
| 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                                                                                                         |          |
| logic_ch                  | LOGICCH                                                                                                       |          |
| msg                       | DISC_PDU                                                                                                      |          |
| fn                        | FN                                                                                                            |          |
| <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                                                                                                              |          |
| logic_ch                  | LOGICCH                                                                                                            |          |
| msg                       | ESETUP_PDU                                                                                                         |          |
| fn                        | FN                                                                                                                 |          |
| <b>Detailed Comments:</b> |                                                                                                                    |          |

| <b>ASP Type Definition</b> |                                                                                                                 |          |
|----------------------------|-----------------------------------------------------------------------------------------------------------------|----------|
| <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                                                                                                           |          |
| logic_ch                   | LOGICCH                                                                                                         |          |
| msg                        | FAC_PDU                                                                                                         |          |
| <b>Detailed Comments:</b>  |                                                                                                                 |          |

| <b>ASP Type Definition</b> |                                                                                                             |          |
|----------------------------|-------------------------------------------------------------------------------------------------------------|----------|
| <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                                                                                                       |          |
| logic_ch                   | LOGICCH                                                                                                     |          |
| msg                        | FAC_PDU                                                                                                     |          |
| fn                         | FN                                                                                                          |          |
| <b>Detailed Comments:</b>  |                                                                                                             |          |

| <b>ASP Type Definition</b> |                                                                                                         |          |
|----------------------------|---------------------------------------------------------------------------------------------------------|----------|
| <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                                                                                                   |          |
| logic_ch                   | LOGICCH                                                                                                 |          |
| msg                        | HOLD_PDU                                                                                                |          |
| fn                         | FN                                                                                                      |          |
| <b>Detailed Comments:</b>  |                                                                                                         |          |

| <b>ASP Type Definition</b> |                                                                                                                         |          |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------|----------|
| <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                                                                                                                   |          |
| logic_ch                   | LOGICCH                                                                                                                 |          |
| msg                        | HOLD_ACK_PDU                                                                                                            |          |
| <b>Detailed Comments:</b>  |                                                                                                                         |          |

| <b>ASP Type Definition</b> |                                                                                                               |          |
|----------------------------|---------------------------------------------------------------------------------------------------------------|----------|
| <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                                                                                                         |          |
| logic_ch                   | LOGICCH                                                                                                       |          |
| msg                        | MODIFY_PDU                                                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                                                               |          |

| <b>ASP Type Definition</b> |                                                                                                           |          |
|----------------------------|-----------------------------------------------------------------------------------------------------------|----------|
| <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                                                                                                     |          |
| logic_ch                   | LOGICCH                                                                                                   |          |
| msg                        | MODIFY_PDU                                                                                                |          |
| fn                         | FN                                                                                                        |          |
| <b>Detailed Comments:</b>  |                                                                                                           |          |

| <b>ASP Type Definition</b> |                                                                                                                        |          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------|----------|
| <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                                                                                                                  |          |
| logic_ch                   | LOGICCH                                                                                                                |          |
| msg                        | MODIFY_COM_PDU                                                                                                         |          |
| <b>Detailed Comments:</b>  |                                                                                                                        |          |

| <b>ASP Type Definition</b> |                                                                                                                      |          |
|----------------------------|----------------------------------------------------------------------------------------------------------------------|----------|
| <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                                                                                                                |          |
| logic_ch                   | LOGICCH                                                                                                              |          |
| msg                        | MODIFY_REJ_PDU                                                                                                       |          |
| <b>Detailed Comments:</b>  |                                                                                                                      |          |

| <b>ASP Type Definition</b> |                                                                                                                  |          |
|----------------------------|------------------------------------------------------------------------------------------------------------------|----------|
| <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                                                                                                            |          |
| logic_ch                   | LOGICCH                                                                                                          |          |
| msg                        | MODIFY_REJ_PDU                                                                                                   |          |
| fn                         | FN                                                                                                               |          |
| <b>Detailed Comments:</b>  |                                                                                                                  |          |

| <b>ASP Type Definition</b> |                                                                                                               |          |
|----------------------------|---------------------------------------------------------------------------------------------------------------|----------|
| <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                                                                                                         |          |
| logic_ch                   | LOGICCH                                                                                                       |          |
| msg                        | NOTIFY_PDU                                                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                                                               |          |

| <b>ASP Type Definition</b> |                                                                                                                 |          |
|----------------------------|-----------------------------------------------------------------------------------------------------------------|----------|
| <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                                                                                                           |          |
| logic_ch                   | LOGICCH                                                                                                         |          |
| msg                        | PROG_PDU                                                                                                        |          |
| <b>Detailed Comments:</b>  |                                                                                                                 |          |

| <b>ASP Type Definition</b> |                                                                                                                 |          |
|----------------------------|-----------------------------------------------------------------------------------------------------------------|----------|
| <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                                                                                                           |          |
| logic_ch                   | LOGICCH                                                                                                         |          |
| msg                        | REGISTER_PDU                                                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                                                                 |          |

| <b>ASP Type Definition</b> |                                                                                                      |          |
|----------------------------|------------------------------------------------------------------------------------------------------|----------|
| <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                                                                                                |          |
| logic_ch                   | LOGICCH                                                                                              |          |
| msg                        | REGISTER_PDU                                                                                         |          |
| fn                         | FN                                                                                                   |          |
| <b>Detailed Comments:</b>  |                                                                                                      |          |

| <b>ASP Type Definition</b> |                                                                                                                |          |
|----------------------------|----------------------------------------------------------------------------------------------------------------|----------|
| <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                                                                                                          |          |
| logic_ch                   | LOGICCH                                                                                                        |          |
| msg                        | REL_PDU                                                                                                        |          |
| <b>Detailed Comments:</b>  |                                                                                                                |          |

| <b>ASP Type Definition</b> |                                                                                                            |          |
|----------------------------|------------------------------------------------------------------------------------------------------------|----------|
| <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                                                                                                      |          |
| logic_ch                   | LOGICCH                                                                                                    |          |
| msg                        | REL_PDU                                                                                                    |          |
| fn                         | FN                                                                                                         |          |
| <b>Detailed Comments:</b>  |                                                                                                            |          |

| <b>ASP Type Definition</b> |                                                                                                                         |          |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------|----------|
| <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                                                                                                                   |          |
| logic_ch                   | LOGICCH                                                                                                                 |          |
| msg                        | REL_COM_PDU                                                                                                             |          |
| <b>Detailed Comments:</b>  |                                                                                                                         |          |

| <b>ASP Type Definition</b> |                                                                                                                     |          |
|----------------------------|---------------------------------------------------------------------------------------------------------------------|----------|
| <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                                                                                                               |          |
| logic_ch                   | LOGICCH                                                                                                             |          |
| msg                        | REL_COM_PDU                                                                                                         |          |
| fn                         | FN                                                                                                                  |          |
| <b>Detailed Comments:</b>  |                                                                                                                     |          |

| <b>ASP Type Definition</b> |                                                                                                              |          |
|----------------------------|--------------------------------------------------------------------------------------------------------------|----------|
| <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                                                                                                        |          |
| logic_ch                   | LOGICCH                                                                                                      |          |
| msg                        | SETUP_MT_PDU                                                                                                 |          |
| <b>Detailed Comments:</b>  |                                                                                                              |          |

| <b>ASP Type Definition</b> |                                                                                                          |          |
|----------------------------|----------------------------------------------------------------------------------------------------------|----------|
| <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                                                                                                    |          |
| logic_ch                   | LOGICCH                                                                                                  |          |
| msg                        | SETUP_MO_PDU                                                                                             |          |
| fn                         | FN                                                                                                       |          |
| <b>Detailed Comments:</b>  |                                                                                                          |          |

| <b>ASP Type Definition</b> |                                                                                                               |          |
|----------------------------|---------------------------------------------------------------------------------------------------------------|----------|
| <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                                                                                                         |          |
| logic_ch                   | LOGICCH                                                                                                       |          |
| msg                        | START_DTMF_PDU                                                                                                |          |
| fn                         | FN                                                                                                            |          |
| <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                                                                                                                         |          |
| logic_ch                  | LOGICCH                                                                                                                       |          |
| 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                                                                                                                   |          |
| logic_ch                  | LOGICCH                                                                                                                 |          |
| 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                                                                                                        |          |
| logic_ch                  | LOGICCH                                                                                                      |          |
| msg                       | STOP_DTMF_PDU                                                                                                |          |
| fn                        | FN                                                                                                           |          |
| <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                                                                                                                        |          |
| logic_ch                  | LOGICCH                                                                                                                      |          |
| 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                                                                                                         |          |
| logic_ch                  | LOGICCH                                                                                                       |          |
| msg                       | CCST_PDU                                                                                                      |          |
| <b>Detailed Comments:</b> |                                                                                                               |          |



| <b>ASP Type Definition</b> |                                                                                                           |          |
|----------------------------|-----------------------------------------------------------------------------------------------------------|----------|
| <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                                                                                                     |          |
| logic_ch                   | LOGICCH                                                                                                   |          |
| msg                        | CCST_PDU                                                                                                  |          |
| fn                         | FN                                                                                                        |          |
| <b>Detailed Comments:</b>  |                                                                                                           |          |

| <b>ASP Type Definition</b> |                                                                                                                   |          |
|----------------------------|-------------------------------------------------------------------------------------------------------------------|----------|
| <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                                                                                                             |          |
| logic_ch                   | LOGICCH                                                                                                           |          |
| msg                        | CCST_ENQ_PDU                                                                                                      |          |
| <b>Detailed Comments:</b>  |                                                                                                                   |          |

| <b>ASP Type Definition</b> |                                                                                  |          |
|----------------------------|----------------------------------------------------------------------------------|----------|
| <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                                                                            |          |
| logic_ch                   | LOGICCH                                                                          |          |
| msg                        | CONN_PDU                                                                         |          |
| <b>Detailed Comments:</b>  |                                                                                  |          |

| <b>ASP Type Definition</b> |                                                                                  |          |
|----------------------------|----------------------------------------------------------------------------------|----------|
| <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                                                                            |          |
| logic_ch                   | LOGICCH                                                                          |          |
| msg                        | ID_RES_PDU                                                                       |          |
| <b>Detailed Comments:</b>  |                                                                                  |          |

| <b>ASP Type Definition</b> |                                                                                  |          |
|----------------------------|----------------------------------------------------------------------------------|----------|
| <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                                                                            |          |
| logic_ch                   | LOGICCH                                                                          |          |
| 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                                                                            |          |
| logic_ch                  | LOGICCH                                                                          |          |
| 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                                                                                                              |          |
| logic_ch                  | LOGICCH                                                                                                            |          |
| msg                       | CP_DATA_PDU                                                                                                        |          |
| fn                        | FN                                                                                                                 |          |
| <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                                                                                                                  |          |
| logic_ch                  | LOGICCH                                                                                                                |          |
| 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                                                                                                        |          |
| logic_ch                  | LOGICCH                                                                                                      |          |
| msg                       | CPDATA_ACK_PDU                                                                                               |          |
| fn                        | FN                                                                                                           |          |
| <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                                                                                                                   |          |
| logic_ch                  | LOGICCH                                                                                                                 |          |
| 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                                                                                                                   |          |
| logic_ch                  | LOGICCH                                                                                                                 |          |
| msg                       | CPERR_PDU                                                                                                               |          |
| <b>Detailed Comments:</b> |                                                                                                                         |          |

| ASP Type Definition       |                                                                                                                                                                          |          |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>ASP Name:</b>          | MDL_RelRq (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                                                                                                                                                                    |          |
| logic_ch                  | LOGICCH                                                                                                                                                                  |          |
| release_mode              | RelMode                                                                                                                                                                  |          |
| <b>Detailed Comments:</b> |                                                                                                                                                                          |          |

### PDU type definitions

### TTCN PDU Type definitions

| PDU Type Definition       |                                                    |          |
|---------------------------|----------------------------------------------------|----------|
| <b>PDU Name:</b>          | ASS_CMD_PDU                                        |          |
| <b>PCO Type:</b>          | SAP0_3                                             |          |
| <b>Comments:</b>          | RR ASSSIGNMENT COMMAND n -> ms<br>GSM 04.08, 9.1.2 |          |
| Field Name                | Field Type                                         | Comments |
| ski                       | SKI                                                |          |
| rrpd                      | PD                                                 |          |
| mt                        | MT                                                 |          |
| ch1d_at                   | CHD                                                |          |
| pcmd                      | PCMD                                               |          |
| frql_at                   | FRQL                                               |          |
| cchd                      | CCHD                                               |          |
| ch1mod                    | CHMOD                                              |          |
| ch2d_at                   | CHD                                                |          |
| ch2mod                    | CHMOD                                              |          |
| ma_at                     | MA                                                 |          |
| strt                      | STRT                                               |          |
| frql_bt                   | FRQL                                               |          |
| ch1d_bt                   | CHD                                                |          |
| ch2d_bt                   | CHD                                                |          |
| frqchs_bt                 | FRQCHS                                             |          |
| ma_bt                     | MA                                                 |          |
| cphms                     | CPHMS                                              |          |
| <b>Detailed Comments:</b> |                                                    |          |

| PDU Type Definition                                                  |            |          |
|----------------------------------------------------------------------|------------|----------|
| <b>PDU Name:</b> ASS_COM_PDU                                         |            |          |
| <b>PCO Type:</b> SAP0_3                                              |            |          |
| <b>Comments:</b> RR ASSSIGNMENT COMPLETE ms -> n<br>GSM 04.08, 9.1.3 |            |          |
| Field Name                                                           | Field Type | Comments |
| ski                                                                  | SKI        |          |
| rrpd                                                                 | PD         |          |
| mt                                                                   | MT         |          |
| rrcau                                                                | RRCAU      |          |
| <b>Detailed Comments:</b>                                            |            |          |

| PDU Type Definition                                                 |            |          |
|---------------------------------------------------------------------|------------|----------|
| <b>PDU Name:</b> ASSFL_PDU                                          |            |          |
| <b>PCO Type:</b> SAP0_3                                             |            |          |
| <b>Comments:</b> RR ASSSIGNMENT FAILURE ms -> n<br>GSM 04.08, 9.1.4 |            |          |
| Field Name                                                          | Field Type | Comments |
| ski                                                                 | SKI        |          |
| rrpd                                                                | PD         |          |
| mt                                                                  | MT         |          |
| rrcau                                                               | RRCAU      |          |
| <b>Detailed Comments:</b>                                           |            |          |

| PDU Type Definition                                                 |            |          |
|---------------------------------------------------------------------|------------|----------|
| <b>PDU Name:</b> CHMMO_PDU                                          |            |          |
| <b>PCO Type:</b> SAP0_3                                             |            |          |
| <b>Comments:</b> RR CHANNEL MODE MODIFY n -> ms<br>GSM 04.08, 9.1.5 |            |          |
| Field Name                                                          | Field Type | Comments |
| ski                                                                 | SKI        |          |
| rrpd                                                                | PD         |          |
| mt                                                                  | MT         |          |
| chd                                                                 | CHD        |          |
| chmod                                                               | CHMOD      |          |
| <b>Detailed Comments:</b>                                           |            |          |

| PDU Type Definition                                                             |            |          |
|---------------------------------------------------------------------------------|------------|----------|
| <b>PDU Name:</b> CHMMO_ACK_PDU                                                  |            |          |
| <b>PCO Type:</b> SAP0_3                                                         |            |          |
| <b>Comments:</b> RR CHANNEL MODE MODIFY ACKNOWLEDGE ms -> n<br>GSM 04.08, 9.1.6 |            |          |
| Field Name                                                                      | Field Type | Comments |
| ski                                                                             | SKI        |          |
| rrpd                                                                            | PD         |          |
| mt                                                                              | MT         |          |
| chd                                                                             | CHD        |          |
| chmod                                                                           | CHMOD      |          |
| <b>Detailed Comments:</b>                                                       |            |          |

| PDU Type Definition       |                                                |          |
|---------------------------|------------------------------------------------|----------|
| <b>PDU Name:</b>          | CH_REL_PDU                                     |          |
| <b>PCO Type:</b>          | SAP0_3                                         |          |
| <b>Comments:</b>          | RR CHANNEL RELEASE n -> ms<br>GSM 04.08, 9.1.7 |          |
| Field Name                | Field Type                                     | Comments |
| ski                       | SKI                                            |          |
| rrpd                      | PD                                             |          |
| mt                        | MT                                             |          |
| rrcau                     | RRCAU                                          |          |
| <b>Detailed Comments:</b> |                                                |          |

| PDU Type Definition       |                                                                                 |          |
|---------------------------|---------------------------------------------------------------------------------|----------|
| <b>PDU Name:</b>          | CH_REL_PDU_ERR                                                                  |          |
| <b>PCO Type:</b>          | SAP0_3                                                                          |          |
| <b>Comments:</b>          | RR CHANNEL RELEASE containing additional unknown IE n -> ms<br>GSM 04.08, 9.1.7 |          |
| Field Name                | Field Type                                                                      | Comments |
| ski                       | SKI                                                                             |          |
| rrpd                      | PD                                                                              |          |
| mt                        | MT                                                                              |          |
| rrcau                     | RRCAU                                                                           |          |
| add                       | OCTETSTRING                                                                     |          |
| <b>Detailed Comments:</b> |                                                                                 |          |

| PDU Type Definition       |                                                |          |
|---------------------------|------------------------------------------------|----------|
| <b>PDU Name:</b>          | CH_RQ_PDU                                      |          |
| <b>PCO Type:</b>          | SAP0_3                                         |          |
| <b>Comments:</b>          | RR CHANNEL REQUEST ms -> n<br>GSM 04.08, 9.1.8 |          |
| Field Name                | Field Type                                     | Comments |
| ecau_rrf                  | BITSTRING [8]                                  |          |
| <b>Detailed Comments:</b> |                                                |          |

| PDU Type Definition       |                                                       |          |
|---------------------------|-------------------------------------------------------|----------|
| <b>PDU Name:</b>          | CPHM_CMD_PDU                                          |          |
| <b>PCO Type:</b>          | SAP0_3                                                |          |
| <b>Comments:</b>          | RR CIPHERING MODE COMMAND n -> ms<br>GSM 04.08, 9.1.9 |          |
| Field Name                | Field Type                                            | Comments |
| ski                       | SKI                                                   |          |
| rrpd                      | PD                                                    |          |
| mt                        | MT                                                    |          |
| cph_res                   | CPH_RES                                               |          |
| cphms                     | CPHMS                                                 |          |
| <b>Detailed Comments:</b> |                                                       |          |

| PDU Type Definition       |                                                                          |          |
|---------------------------|--------------------------------------------------------------------------|----------|
| <b>PDU Name:</b>          | CPHM_CMD_PDU_ERR                                                         |          |
| <b>PCO Type:</b>          | SAP0_3                                                                   |          |
| <b>Comments:</b>          | RR CIPHERING MODE COMMAND with additional unknown IE<br>GSM 04.08, 9.1.9 |          |
| Field Name                | Field Type                                                               | Comments |
| ski                       | SKI                                                                      |          |
| rrpd                      | PD                                                                       |          |
| mt                        | MT                                                                       |          |
| cph_res                   | CPH_RES                                                                  |          |
| cphms                     | CPHMS                                                                    |          |
| add                       | OCTETSTRING                                                              |          |
| <b>Detailed Comments:</b> |                                                                          |          |

| PDU Type Definition       |                                                         |          |
|---------------------------|---------------------------------------------------------|----------|
| <b>PDU Name:</b>          | CPHM_COM_PDU                                            |          |
| <b>PCO Type:</b>          | SAP0_3                                                  |          |
| <b>Comments:</b>          | RR CIPHERING MODE COMPLETE ms -> n<br>GSM 04.08, 9.1.10 |          |
| Field Name                | Field Type                                              | Comments |
| ski                       | SKI                                                     |          |
| rrpd                      | PD                                                      |          |
| mt                        | MT                                                      |          |
| mei                       | MI                                                      |          |
| <b>Detailed Comments:</b> |                                                         |          |

| PDU Type Definition       |                                                  |          |
|---------------------------|--------------------------------------------------|----------|
| <b>PDU Name:</b>          | CLM_CHN_PDU                                      |          |
| <b>PCO Type:</b>          | SAP0_3                                           |          |
| <b>Comments:</b>          | RR CLASSMARK CHANGE ms -> n<br>GSM 04.08, 9.1.11 |          |
| Field Name                | Field Type                                       | Comments |
| ski                       | SKI                                              |          |
| rrpd                      | PD                                               |          |
| mt                        | MT                                               |          |
| msclm                     | MSCLM2                                           |          |
| msclm_adi                 | MSCLM3                                           |          |
| <b>Detailed Comments:</b> |                                                  |          |

| PDU Type Definition       |                                                   |          |
|---------------------------|---------------------------------------------------|----------|
| <b>PDU Name:</b>          | CLM_ENQ_PDU                                       |          |
| <b>PCO Type:</b>          | SAP0_3                                            |          |
| <b>Comments:</b>          | RR CLASSMARK ENQUIRY n -> ms<br>GSM 04.08, 9.1.12 |          |
| Field Name                | Field Type                                        | Comments |
| ski                       | SKI                                               |          |
| rrpd                      | PD                                                |          |
| mt                        | MT                                                |          |
| <b>Detailed Comments:</b> |                                                   |          |

| PDU Type Definition       |                                                         |          |
|---------------------------|---------------------------------------------------------|----------|
| <b>PDU Name:</b>          | FRQRE_PDU                                               |          |
| <b>PCO Type:</b>          | SAP0_3                                                  |          |
| <b>Comments:</b>          | RR FREQUENCY REDEFINITIONY n -> ms<br>GSM 04.08, 9.1.13 |          |
| Field Name                | Field Type                                              | Comments |
| ski                       | SKI                                                     |          |
| rrpd                      | PD                                                      |          |
| mt                        | MT                                                      |          |
| chd                       | CHD                                                     |          |
| ma                        | MA                                                      |          |
| strt                      | STRT                                                    |          |
| cchd                      | CCHD                                                    |          |
| <b>Detailed Comments:</b> |                                                         |          |

| PDU Type Definition       |                                                 |          |
|---------------------------|-------------------------------------------------|----------|
| <b>PDU Name:</b>          | HOACC_PDU                                       |          |
| <b>PCO Type:</b>          | SAP0_3                                          |          |
| <b>Comments:</b>          | RR HANDOVER ACCESS ms -> n<br>GSM 04.08, 9.1.14 |          |
| Field Name                | Field Type                                      | Comments |
| horf                      | HORF                                            |          |
| <b>Detailed Comments:</b> |                                                 |          |

| PDU Type Definition       |                                                  |          |
|---------------------------|--------------------------------------------------|----------|
| <b>PDU Name:</b>          | HO_CMD_PDU                                       |          |
| <b>PCO Type:</b>          | SAP0_3                                           |          |
| <b>Comments:</b>          | RR HANDOVER COMMAND n -> ms<br>GSM 04.08, 9.1.15 |          |
| Field Name                | Field Type                                       | Comments |
| ski                       | SKI                                              |          |
| rrpd                      | PD                                               |          |
| mt                        | MT                                               |          |
| cd                        | CD                                               |          |
| ch1d_at                   | CHD                                              |          |
| horf                      | HORF                                             |          |
| pcmd                      | PCMD                                             |          |
| synchi                    | SYNCHI                                           |          |
| frqsl_at                  | FRQL                                             |          |
| frql_at                   | FRQL                                             |          |
| cchd                      | CCHD                                             |          |
| ch1mod                    | CHMOD                                            |          |
| ch2d_at                   | CHD                                              |          |
| ch2mod                    | CHMOD                                            |          |
| frqchs_at                 | FRQCHS                                           |          |
| ma_at                     | MA                                               |          |
| strt                      | STRT                                             |          |
| rtdif                     | TDIF                                             |          |
| ta                        | TA                                               |          |
| frqsl_bt                  | FRQL                                             |          |
| frql_bt                   | FRQL                                             |          |
| ch1d_bt                   | CHD                                              |          |
| ch2d_bt                   | CHD                                              |          |
| frqchs_bt                 | FRQCHS                                           |          |
| ma_bt                     | MA                                               |          |
| cphms                     | CPHMS                                            |          |
| <b>Detailed Comments:</b> |                                                  |          |

| PDU Type Definition       |                                                   |          |
|---------------------------|---------------------------------------------------|----------|
| <b>PDU Name:</b>          | HO_COM_PDU                                        |          |
| <b>PCO Type:</b>          | SAP0_3                                            |          |
| <b>Comments:</b>          | RR HANDOVER COMPLETE ms -> n<br>GSM 04.08, 9.1.16 |          |
| Field Name                | Field Type                                        | Comments |
| ski                       | SKI                                               |          |
| rrpd                      | PD                                                |          |
| mt                        | MT                                                |          |
| rrcau                     | RRCAU                                             |          |
| motdif                    | MTDIF                                             |          |
| <b>Detailed Comments:</b> |                                                   |          |

| PDU Type Definition       |                                                  |          |
|---------------------------|--------------------------------------------------|----------|
| <b>PDU Name:</b>          | HOFL_PDU                                         |          |
| <b>PCO Type:</b>          | SAP0_3                                           |          |
| <b>Comments:</b>          | RR HANDOVER FAILURE ms -> n<br>GSM 04.08, 9.1.17 |          |
| Field Name                | Field Type                                       | Comments |
| ski                       | SKI                                              |          |
| rrpd                      | PD                                               |          |
| mt                        | MT                                               |          |
| rrcau                     | RRCAU                                            |          |
| <b>Detailed Comments:</b> |                                                  |          |

| PDU Type Definition                                                    |                                                      |          |
|------------------------------------------------------------------------|------------------------------------------------------|----------|
| <b>PDU Name:</b>                                                       | IMMASS_PDU                                           |          |
| <b>PCO Type:</b>                                                       | SAP0_3                                               |          |
| <b>Comments:</b>                                                       | RR IMMEDIATE ASSIGNMENT n -> ms<br>GSM 04.08, 9.1.18 |          |
| Field Name                                                             | Field Type                                           | Comments |
| l2_pl                                                                  | LENGTH                                               |          |
| ski                                                                    | SKI                                                  |          |
| rrpd                                                                   | PD                                                   |          |
| mt                                                                     | MT                                                   |          |
| shoct                                                                  | SHOCT                                                |          |
| pm                                                                     | PM                                                   |          |
| chd                                                                    | CHD                                                  |          |
| rqr                                                                    | RQR                                                  |          |
| ta                                                                     | TA                                                   |          |
| ma                                                                     | MA                                                   |          |
| strt                                                                   | STRT                                                 |          |
| iaroct                                                                 | IARESTOCT                                            |          |
| <b>Detailed Comments:</b> The message has a fixed length of 23 octets. |                                                      |          |



| PDU Type Definition       |                                                      |          |
|---------------------------|------------------------------------------------------|----------|
| <b>PDU Name:</b>          | IMMASSX_PDU                                          |          |
| <b>PCO Type:</b>          | SAPO_3                                               |          |
| <b>Comments:</b>          | RR IMMEDIATE ASSIGNMENT n -> ms<br>GSM 04.08, 9.1.19 |          |
| Field Name                | Field Type                                           | Comments |
| l2_pl                     | LENGTH                                               |          |
| ski                       | SKI                                                  |          |
| rrpd                      | PD                                                   |          |
| mt                        | MT                                                   |          |
| shoct                     | SHOCT                                                |          |
| pm                        | PM                                                   |          |
| chd1                      | CHD                                                  |          |
| rqr1                      | RQR                                                  |          |
| ta1                       | TA                                                   |          |
| chd2                      | CHD                                                  |          |
| rqr2                      | RQR                                                  |          |
| ta2                       | TA                                                   |          |
| ma                        | MA                                                   |          |
| strt                      | STRT                                                 |          |
| iaxroct                   | OCTETSTRING [1..4]                                   |          |
| <b>Detailed Comments:</b> | The message has a fixed length of 23 octets.         |          |

| PDU Type Definition       |                                                  |          |
|---------------------------|--------------------------------------------------|----------|
| <b>PDU Name:</b>          | IMMASS_REJ_PDU                                   |          |
| <b>PCO Type:</b>          | SAPO_3                                           |          |
| <b>Comments:</b>          | RR IMMEDIATE REJECT n -> ms<br>GSM 04.08, 9.1.20 |          |
| Field Name                | Field Type                                       | Comments |
| l2_pl                     | LENGTH                                           |          |
| ski                       | SKI                                              |          |
| rrpd                      | PD                                               |          |
| mt                        | MT                                               |          |
| shoct                     | SHOCT                                            |          |
| pm                        | PM                                               |          |
| rqr1                      | RQR                                              |          |
| wi1                       | WI                                               |          |
| rqr2                      | RQR                                              |          |
| wi2                       | WI                                               |          |
| rqr3                      | RQR                                              |          |
| wi3                       | WI                                               |          |
| rqr4                      | RQR                                              |          |
| wi4                       | WI                                               |          |
| iarroct                   | OCTETSTRING [3]                                  |          |
| <b>Detailed Comments:</b> | The message has a fixed length of 23 octets.     |          |

| PDU Type Definition       |                                                    |          |
|---------------------------|----------------------------------------------------|----------|
| <b>PDU Name:</b>          | MSR_RPT_PDU                                        |          |
| <b>PCO Type:</b>          | SAPO_3                                             |          |
| <b>Comments:</b>          | RR MEASUREMENT REPORT ms -> n<br>GSM 04.08, 9.1.21 |          |
| Field Name                | Field Type                                         | Comments |
| ski                       | SKI                                                |          |
| rrpd                      | PD                                                 |          |
| mt                        | MT                                                 |          |
| msrr                      | MSRR                                               |          |
| <b>Detailed Comments:</b> |                                                    |          |

| PDU Type Definition       |                                                      |          |
|---------------------------|------------------------------------------------------|----------|
| <b>PDU Name:</b>          | PG1_RQ_PDU                                           |          |
| <b>PCO Type:</b>          | SAP0_3                                               |          |
| <b>Comments:</b>          | RR PAGING REQUEST_TYPE1 n -> ms<br>GSM 04.08, 9.1.22 |          |
| Field Name                | Field Type                                           | Comments |
| l2_pl                     | LENGTH                                               |          |
| ski                       | SKI                                                  |          |
| rrpd                      | PD                                                   |          |
| mt                        | MT                                                   |          |
| chn_m1_2                  | CHNEED                                               |          |
| pm                        | PM                                                   |          |
| mi1                       | MI                                                   |          |
| mi2                       | MI                                                   |          |
| p1roct                    | OCTETSTRING [0..17]                                  |          |
| <b>Detailed Comments:</b> | The message has a fixed length of 23 octets.         |          |

| PDU Type Definition       |                                                      |          |
|---------------------------|------------------------------------------------------|----------|
| <b>PDU Name:</b>          | PG2_RQ_PDU                                           |          |
| <b>PCO Type:</b>          | SAP0_3                                               |          |
| <b>Comments:</b>          | RR PAGING REQUEST TYPE2 n -> ms<br>GSM 04.08, 9.1.23 |          |
| Field Name                | Field Type                                           | Comments |
| l2_pl                     | LENGTH                                               |          |
| ski                       | SKI                                                  |          |
| rrpd                      | PD                                                   |          |
| mt                        | MT                                                   |          |
| chn_m1_2                  | CHNEED                                               |          |
| pm                        | PM                                                   |          |
| mi1                       | TMSI                                                 |          |
| mi2                       | TMSI                                                 |          |
| mi3                       | MI                                                   |          |
| p2roct                    | OCTETSTRING [1..11]                                  |          |
| <b>Detailed Comments:</b> | The message has a fixed length of 23 octets.         |          |

| PDU Type Definition       |                                                                                   |          |
|---------------------------|-----------------------------------------------------------------------------------|----------|
| <b>PDU Name:</b>          | PG3_RQ_PDU                                                                        |          |
| <b>PCO Type:</b>          | SAP0_3                                                                            |          |
| <b>Comments:</b>          | RR PAGING REQUEST TYPE3 n -> ms<br>GSM 04.08, 9.1.24                              |          |
| Field Name                | Field Type                                                                        | Comments |
| l2_pl                     | LENGTH                                                                            |          |
| ski                       | SKI                                                                               |          |
| rrpd                      | PD                                                                                |          |
| mt                        | MT                                                                                |          |
| chn_m1_2                  | CHNEED                                                                            |          |
| pm                        | PM                                                                                |          |
| mi1                       | TMSI                                                                              |          |
| mi2                       | TMSI                                                                              |          |
| mi3                       | TMSI                                                                              |          |
| mi4                       | TMSI                                                                              |          |
| p3roct                    | OCTETSTRING [3]                                                                   |          |
| <b>Detailed Comments:</b> | 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>Comments:</b>          | RR PAGING RESPONSE ms -> n<br>GSM 04.08, 9.1.25 |          |
| Field Name                | Field Type                                      | Comments |
| ski                       | SKI                                             |          |
| rrpd                      | PD                                              |          |
| mt                        | MT                                              |          |
| shoct                     | SHOCT                                           |          |
| cphksn                    | CPHKS                                           |          |
| msclm                     | MSCLM2                                          |          |
| mi                        | MI                                              |          |
| <b>Detailed Comments:</b> |                                                 |          |

| PDU Type Definition       |                                                 |          |
|---------------------------|-------------------------------------------------|----------|
| <b>PDU Name:</b>          | PART_REL_PDU                                    |          |
| <b>PCO Type:</b>          | SAP0_3                                          |          |
| <b>Comments:</b>          | RR PARTIAL RELEASE n -> ms<br>GSM 04.08, 9.1.26 |          |
| Field Name                | Field Type                                      | Comments |
| ski                       | SKI                                             |          |
| rrpd                      | PD                                              |          |
| mt                        | MT                                              |          |
| chd                       | CHD                                             |          |
| <b>Detailed Comments:</b> |                                                 |          |

| PDU Type Definition       |                                                            |          |
|---------------------------|------------------------------------------------------------|----------|
| <b>PDU Name:</b>          | PHYINFO_PDU                                                |          |
| <b>PCO Type:</b>          | SAP0_3                                                     |          |
| <b>Comments:</b>          | RR PHYSICAL INFORMATION n -> ms<br>GSM 04.08 clause 9.1.28 |          |
| Field Name                | Field Type                                                 | Comments |
| ski                       | SKI                                                        |          |
| rrpd                      | PD                                                         |          |
| mt                        | MT                                                         |          |
| ta                        | TA                                                         |          |
| <b>Detailed Comments:</b> |                                                            |          |

| PDU Type Definition       |                                         |          |
|---------------------------|-----------------------------------------|----------|
| <b>PDU Name:</b>          | RRST_PDU                                |          |
| <b>PCO Type:</b>          | SAP0_3                                  |          |
| <b>Comments:</b>          | RR STATUS n <-> ms<br>GSM 04.08, 9.1.29 |          |
| Field Name                | Field Type                              | Comments |
| ski                       | SKI                                     |          |
| rrpd                      | PD                                      |          |
| mt                        | MT                                      |          |
| rrcau                     | RRCAU                                   |          |
| <b>Detailed Comments:</b> |                                         |          |

| PDU Type Definition       |                                                                     |          |
|---------------------------|---------------------------------------------------------------------|----------|
| <b>PDU Name:</b>          | SCHINFO_PDU                                                         |          |
| <b>PCO Type:</b>          | SAP0_3                                                              |          |
| <b>Comments:</b>          | RR SYNCHRONIZATION CHANNEL INFORMATION n -> ms<br>GSM 04.08, 9.1.30 |          |
| Field Name                | Field Type                                                          | Comments |
| ncc                       | NCC                                                                 |          |
| bcc                       | BCC                                                                 |          |
| t1                        | T1                                                                  |          |
| t2                        | T2                                                                  |          |
| t3_                       | T3_                                                                 |          |
| <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>Comments:</b>          | RR SYSTEM INFORMATION TYPE1 n -> ms<br>GSM 04.08, 9.1.31                          |          |
| Field Name                | Field Type                                                                        | Comments |
| l2_pl                     | LENGTH                                                                            |          |
| ski                       | SKI                                                                               |          |
| rrpd                      | PD                                                                                |          |
| mt                        | MT                                                                                |          |
| cchd                      | CCHD                                                                              |          |
| rachcp                    | RACHCP                                                                            |          |
| si1roct                   | OCTETSTRING [1]                                                                   |          |
| <b>Detailed Comments:</b> | The message has an L2 pseudo length of 21 octets and a total length of 23 octets. |          |

| PDU Type Definition       |                                                                                   |          |
|---------------------------|-----------------------------------------------------------------------------------|----------|
| <b>PDU Name:</b>          | SYSINFO2_PDU                                                                      |          |
| <b>PCO Type:</b>          | SAP0_3                                                                            |          |
| <b>Comments:</b>          | RR SYSTEM INFORMATION TYPE2 n -> ms<br>GSM 04.08, 9.1.32                          |          |
| Field Name                | Field Type                                                                        | Comments |
| l2_pl                     | LENGTH                                                                            |          |
| ski                       | SKI                                                                               |          |
| rrpd                      | PD                                                                                |          |
| mt                        | MT                                                                                |          |
| bcchfl                    | NCD                                                                               |          |
| nccp                      | NCCP                                                                              |          |
| rachcp                    | RACHCP                                                                            |          |
| <b>Detailed Comments:</b> | The message has an L2 pseudo length of 22 octets and a total length of 23 octets. |          |

| PDU Type Definition       |                                                                                                                                                                                                                                                      |          |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>PDU Name:</b>          | SYSINFO2bis_PDU                                                                                                                                                                                                                                      |          |
| <b>PCO Type:</b>          | SAP0_3                                                                                                                                                                                                                                               |          |
| <b>Comments:</b>          | RR SYSTEM INFORMATION TYPE2bis or 2ter n -> ms<br>GSM 04.08, 9.1.33, 9.1.33a                                                                                                                                                                         |          |
| Field Name                | Field Type                                                                                                                                                                                                                                           | Comments |
| l2_pl                     | LENGTH                                                                                                                                                                                                                                               |          |
| ski                       | SKI                                                                                                                                                                                                                                                  |          |
| rrpd                      | PD                                                                                                                                                                                                                                                   |          |
| mt                        | MT                                                                                                                                                                                                                                                   |          |
| xbcchfl                   | NCD                                                                                                                                                                                                                                                  |          |
| rachcp                    | RACHCP                                                                                                                                                                                                                                               |          |
| si2bisroct                | OCTETSTRING [1..4]                                                                                                                                                                                                                                   |          |
| <b>Detailed Comments:</b> | This PDU type is used both for SYSINFO2bis, as well as for 2ter.<br>The 2bis message has an L2 pseudo length of 21 octets and a total length of 23 octets.<br>The 2ter message has an L2 pseudo length of 18 octets and a total length of 23 octets. |          |

| PDU Type Definition       |                                                                                   |          |
|---------------------------|-----------------------------------------------------------------------------------|----------|
| <b>PDU Name:</b>          | SYSINFO3_PDU                                                                      |          |
| <b>PCO Type:</b>          | SAP0_3                                                                            |          |
| <b>Comments:</b>          | RR SYSTEM INFORMATION TYPE3 n -> ms<br>GSM 04.08, 9.1.34                          |          |
| Field Name                | Field Type                                                                        | Comments |
| l2_pl                     | LENGTH                                                                            |          |
| ski                       | SKI                                                                               |          |
| rrpd                      | PD                                                                                |          |
| mt                        | MT                                                                                |          |
| ci                        | CI                                                                                |          |
| lai                       | LAI                                                                               |          |
| ccd                       | CCD                                                                               |          |
| co                        | CO                                                                                |          |
| csp                       | CSP                                                                               |          |
| rachcp                    | RACHCP                                                                            |          |
| si3roct                   | OCTETSTRING [4]                                                                   |          |
| <b>Detailed Comments:</b> | 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>Comments:</b>          | RR SYSTEM INFORMATION TYPE4 n -> ms<br>GSM 04.08, 9.1.35 |          |
| Field Name                | Field Type                                               | Comments |
| l2_pl                     | LENGTH                                                   |          |
| ski                       | SKI                                                      |          |
| rrpd                      | PD                                                       |          |
| mt                        | MT                                                       |          |
| lai                       | LAI                                                      |          |
| csp                       | CSP                                                      |          |
| rachcp                    | RACHCP                                                   |          |
| cbchd                     | CHD                                                      |          |
| cbchma                    | MA                                                       |          |
| si4roct                   | OCTETSTRING [1..10]                                      |          |
| <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>Comments:</b>          | RR SYSTEM INFORMATION TYPE5 n -> ms<br>GSM 04.08, 9.1.36 |          |
| Field Name                | Field Type                                               | Comments |
| ski                       | SKI                                                      |          |
| rrpd                      | PD                                                       |          |
| mt                        | MT                                                       |          |
| bcchfl                    | NCD                                                      |          |
| <b>Detailed Comments:</b> |                                                          |          |

| PDU Type Definition                                                          |                                                             |          |
|------------------------------------------------------------------------------|-------------------------------------------------------------|----------|
| <b>PDU Name:</b>                                                             | SYSINFO5bis_PDU                                             |          |
| <b>PCO Type:</b>                                                             | SAP0_3                                                      |          |
| <b>Comments:</b>                                                             | RR SYSTEM INFORMATION TYPE5bis n -> ms<br>GSM 04.08, 9.1.37 |          |
| Field Name                                                                   | Field Type                                                  | Comments |
| ski                                                                          | SKI                                                         |          |
| rrpd                                                                         | PD                                                          |          |
| mt                                                                           | MT                                                          |          |
| xbcchfl                                                                      | NCD                                                         |          |
| <b>Detailed Comments:</b> This message type is also used as SYSINFO5ter PDU. |                                                             |          |

| PDU Type Definition       |                                                          |          |
|---------------------------|----------------------------------------------------------|----------|
| <b>PDU Name:</b>          | SYSINFO6_PDU                                             |          |
| <b>PCO Type:</b>          | SAP0_3                                                   |          |
| <b>Comments:</b>          | RR SYSTEM INFORMATION TYPE6 n -> ms<br>GSM 04.08, 9.1.38 |          |
| Field Name                | Field Type                                               | Comments |
| ski                       | SKI                                                      |          |
| rrpd                      | PD                                                       |          |
| mt                        | MT                                                       |          |
| ci                        | CI                                                       |          |
| lai                       | LAI                                                      |          |
| co                        | CO                                                       |          |
| nccp                      | NCCP                                                     |          |
| <b>Detailed Comments:</b> |                                                          |          |

| PDU Type Definition       |                                      |          |
|---------------------------|--------------------------------------|----------|
| <b>PDU Name:</b>          | ABRT_PDU                             |          |
| <b>PCO Type:</b>          | SAP0_3                               |          |
| <b>Comments:</b>          | MM ABORT n -> ms<br>GSM 04.08, 9.2.8 |          |
| Field Name                | Field Type                           | Comments |
| ski                       | SKI                                  |          |
| mmpd                      | PD                                   |          |
| mt                        | MT                                   |          |
| rejcau                    | REJCAU                               |          |
| <b>Detailed Comments:</b> |                                      |          |

| PDU Type Definition       |                                                      |          |
|---------------------------|------------------------------------------------------|----------|
| <b>PDU Name:</b>          | AUTH_REJ_PDU                                         |          |
| <b>PCO Type:</b>          | SAPO_3                                               |          |
| <b>Comments:</b>          | MM AUTHENTICATION REJECT n -> ms<br>GSM 04.08, 9.2.1 |          |
| Field Name                | Field Type                                           | Comments |
| ski                       | SKI                                                  |          |
| mmpd                      | PD                                                   |          |
| mt                        | MT                                                   |          |
| <b>Detailed Comments:</b> |                                                      |          |

| PDU Type Definition       |                                                       |          |
|---------------------------|-------------------------------------------------------|----------|
| <b>PDU Name:</b>          | AUTH_RQ_PDU                                           |          |
| <b>PCO Type:</b>          | SAPO_3                                                |          |
| <b>Comments:</b>          | MM AUTHENTICATION REQUEST n -> ms<br>GSM 04.08, 9.2.2 |          |
| Field Name                | Field Type                                            | Comments |
| ski                       | SKI                                                   |          |
| mmpd                      | PD                                                    |          |
| mt                        | MT                                                    |          |
| shoct                     | SHOCT                                                 |          |
| cphksn                    | CPHKSN                                                |          |
| rand                      | RAND                                                  |          |
| <b>Detailed Comments:</b> |                                                       |          |

| PDU Type Definition       |                                                        |          |
|---------------------------|--------------------------------------------------------|----------|
| <b>PDU Name:</b>          | AUTH_RES_PDU                                           |          |
| <b>PCO Type:</b>          | SAPO_3                                                 |          |
| <b>Comments:</b>          | MM AUTHENTICATION RESPONSE ms -> n<br>GSM 04.08, 9.2.3 |          |
| Field Name                | Field Type                                             | Comments |
| ski                       | SKI                                                    |          |
| mmpd                      | PD                                                     |          |
| mt                        | MT                                                     |          |
| sres                      | SRES                                                   |          |
| <b>Detailed Comments:</b> |                                                        |          |

| PDU Type Definition       |                                                           |          |
|---------------------------|-----------------------------------------------------------|----------|
| <b>PDU Name:</b>          | CMRE_RQ_PDU                                               |          |
| <b>PCO Type:</b>          | SAPO_3                                                    |          |
| <b>Comments:</b>          | MM CM REESTABLISHMENT REQUEST ms -> n<br>GSM 04.08, 9.2.4 |          |
| Field Name                | Field Type                                                | Comments |
| ski                       | SKI                                                       |          |
| mmpd                      | PD                                                        |          |
| mt                        | MT                                                        |          |
| shoct                     | SHOCT                                                     |          |
| cphksn                    | CPHKSN                                                    |          |
| msclm                     | MSCLM2                                                    |          |
| mi                        | MI                                                        |          |
| lai                       | LAI                                                       |          |
| <b>Detailed Comments:</b> |                                                           |          |

| PDU Type Definition       |                                                  |          |
|---------------------------|--------------------------------------------------|----------|
| <b>PDU Name:</b>          | CMS_ACP_PDU                                      |          |
| <b>PCO Type:</b>          | SAP0_3                                           |          |
| <b>Comments:</b>          | MM CM SERVICE ACCEPT n -> ms<br>GSM 04.08, 9.2.5 |          |
| Field Name                | Field Type                                       | Comments |
| ski                       | SKI                                              |          |
| mmpd                      | PD                                               |          |
| mt                        | MT                                               |          |
| <b>Detailed Comments:</b> |                                                  |          |

| PDU Type Definition       |                                                  |          |
|---------------------------|--------------------------------------------------|----------|
| <b>PDU Name:</b>          | CMS_REJ_PDU                                      |          |
| <b>PCO Type:</b>          | SAP0_3                                           |          |
| <b>Comments:</b>          | MM CM SERVICE REJECT n -> ms<br>GSM 04.08, 9.2.6 |          |
| Field Name                | Field Type                                       | Comments |
| ski                       | SKI                                              |          |
| mmpd                      | PD                                               |          |
| mt                        | MT                                               |          |
| mmcau                     | REJCAU                                           |          |
| <b>Detailed Comments:</b> |                                                  |          |

| PDU Type Definition       |                                                   |          |
|---------------------------|---------------------------------------------------|----------|
| <b>PDU Name:</b>          | CMS_RQ_PDU                                        |          |
| <b>PCO Type:</b>          | SAP0_3                                            |          |
| <b>Comments:</b>          | MM CM SERVICE REQUEST ms -> n<br>GSM 04.08, 9.2.9 |          |
| Field Name                | Field Type                                        | Comments |
| ski                       | SKI                                               |          |
| mmpd                      | PD                                                |          |
| mt                        | MT                                                |          |
| cphksn                    | CPHKS                                             |          |
| svtype                    | CMSVTYPE                                          |          |
| msclm                     | MSCLM2                                            |          |
| mi                        | MI                                                |          |
| <b>Detailed Comments:</b> |                                                   |          |

| PDU Type Definition       |                                                  |          |
|---------------------------|--------------------------------------------------|----------|
| <b>PDU Name:</b>          | ID_RQ_PDU                                        |          |
| <b>PCO Type:</b>          | SAP0_3                                           |          |
| <b>Comments:</b>          | MM IDENTITY REQUEST n -> ms<br>GSM 04.08, 9.2.10 |          |
| Field Name                | Field Type                                       | Comments |
| ski                       | SKI                                              |          |
| mmpd                      | PD                                               |          |
| mt                        | MT                                               |          |
| shoct                     | SHOCT                                            |          |
| idtype                    | IDTYPE                                           |          |
| <b>Detailed Comments:</b> |                                                  |          |



| PDU Type Definition       |                                                   |          |
|---------------------------|---------------------------------------------------|----------|
| <b>PDU Name:</b>          | ID_RES_PDU                                        |          |
| <b>PCO Type:</b>          | SAP0_3                                            |          |
| <b>Comments:</b>          | MM IDENTITY RESPONSE ms -> n<br>GSM 04.08, 9.2.11 |          |
| Field Name                | Field Type                                        | Comments |
| ski                       | SKI                                               |          |
| mmpd                      | PD                                                |          |
| mt                        | MT                                                |          |
| mi                        | MI                                                |          |
| <b>Detailed Comments:</b> |                                                   |          |

| PDU Type Definition       |                                                        |          |
|---------------------------|--------------------------------------------------------|----------|
| <b>PDU Name:</b>          | IMSID_IN_PDU                                           |          |
| <b>PCO Type:</b>          | SAP0_3                                                 |          |
| <b>Comments:</b>          | MM IMSI DETACH INDICATION ms -> n<br>GSM 04.08, 9.2.12 |          |
| Field Name                | Field Type                                             | Comments |
| ski                       | SKI                                                    |          |
| mmpd                      | PD                                                     |          |
| mt                        | MT                                                     |          |
| msclm                     | MSCLM1                                                 |          |
| mi                        | MI                                                     |          |
| <b>Detailed Comments:</b> |                                                        |          |

| PDU Type Definition       |                                                          |          |
|---------------------------|----------------------------------------------------------|----------|
| <b>PDU Name:</b>          | LUP_ACP_PDU                                              |          |
| <b>PCO Type:</b>          | SAP0_3                                                   |          |
| <b>Comments:</b>          | MM LOCATION UPDATING ACCEPT n -> ms<br>GSM 04.08, 9.2.13 |          |
| Field Name                | Field Type                                               | Comments |
| ski                       | SKI                                                      |          |
| mmpd                      | PD                                                       |          |
| mt                        | MT                                                       |          |
| lai                       | LAI                                                      |          |
| mi                        | MI                                                       |          |
| fop                       | IEI_8                                                    |          |
| <b>Detailed Comments:</b> |                                                          |          |

| PDU Type Definition       |                                                          |          |
|---------------------------|----------------------------------------------------------|----------|
| <b>PDU Name:</b>          | LUP_ACP_PDU_ERR                                          |          |
| <b>PCO Type:</b>          | SAP0_3                                                   |          |
| <b>Comments:</b>          | MM LOCATION UPDATING ACCEPT n -> ms<br>GSM 04.08, 9.2.13 |          |
| Field Name                | Field Type                                               | Comments |
| ski                       | SKI                                                      |          |
| mmpd                      | PD                                                       |          |
| mt                        | MT                                                       |          |
| lai                       | LAI                                                      |          |
| mi                        | MI                                                       |          |
| dupmi                     | MI                                                       |          |
| <b>Detailed Comments:</b> |                                                          |          |

| PDU Type Definition       |                                                          |          |
|---------------------------|----------------------------------------------------------|----------|
| <b>PDU Name:</b>          | LUP_REJ_PDU                                              |          |
| <b>PCO Type:</b>          | SAP0_3                                                   |          |
| <b>Comments:</b>          | MM LOCATION UPDATING REJECT n -> ms<br>GSM 04.08, 9.2.14 |          |
| Field Name                | Field Type                                               | Comments |
| ski                       | SKI                                                      |          |
| mmpd                      | PD                                                       |          |
| mt                        | MT                                                       |          |
| rejcau                    | REJCAU                                                   |          |
| <b>Detailed Comments:</b> |                                                          |          |

| PDU Type Definition       |                                                           |          |
|---------------------------|-----------------------------------------------------------|----------|
| <b>PDU Name:</b>          | LUP_RQ_PDU                                                |          |
| <b>PCO Type:</b>          | SAP0_3                                                    |          |
| <b>Comments:</b>          | MM LOCATION UPDATING REQUEST ms -> n<br>GSM 04.08, 9.2.15 |          |
| Field Name                | Field Type                                                | Comments |
| ski                       | SKI                                                       |          |
| mmpd                      | PD                                                        |          |
| mt                        | MT                                                        |          |
| cphksn                    | CPHKS                                                     |          |
| lutype                    | LUT                                                       |          |
| lai                       | LAI                                                       |          |
| msclm                     | MSCLM1                                                    |          |
| mi                        | MI                                                        |          |
| <b>Detailed Comments:</b> |                                                           |          |

| PDU Type Definition       |                                         |          |
|---------------------------|-----------------------------------------|----------|
| <b>PDU Name:</b>          | MMST_PDU                                |          |
| <b>PCO Type:</b>          | SAP0_3                                  |          |
| <b>Comments:</b>          | MM STATUS n <-> ms<br>GSM 04.08, 9.2.16 |          |
| Field Name                | Field Type                              | Comments |
| ski                       | SKI                                     |          |
| mmpd                      | PD                                      |          |
| mt                        | MT                                      |          |
| rejcau                    | REJCAU                                  |          |
| <b>Detailed Comments:</b> |                                         |          |

| PDU Type Definition       |                                                           |          |
|---------------------------|-----------------------------------------------------------|----------|
| <b>PDU Name:</b>          | TMSIRE_CMD_PDU                                            |          |
| <b>PCO Type:</b>          | SAP0_3                                                    |          |
| <b>Comments:</b>          | MM TMSI REALLOCATION COMMAND n -> ms<br>GSM 04.08, 9.2.17 |          |
| Field Name                | Field Type                                                | Comments |
| ski                       | SKI                                                       |          |
| mmpd                      | PD                                                        |          |
| mt                        | MT                                                        |          |
| lai                       | LAI                                                       |          |
| mi                        | MI                                                        |          |
| <b>Detailed Comments:</b> |                                                           |          |

| PDU Type Definition       |                                                            |          |
|---------------------------|------------------------------------------------------------|----------|
| <b>PDU Name:</b>          | TMSIRE_COM_PDU                                             |          |
| <b>PCO Type:</b>          | SAP0_3                                                     |          |
| <b>Comments:</b>          | MM TMSI REALLOCATION COMPLETE ms -> n<br>GSM 04.08, 9.2.18 |          |
| Field Name                | Field Type                                                 | Comments |
| ski                       | SKI                                                        |          |
| mmpd                      | PD                                                         |          |
| mt                        | MT                                                         |          |
| <b>Detailed Comments:</b> |                                                            |          |

| PDU Type Definition       |                                          |          |
|---------------------------|------------------------------------------|----------|
| <b>PDU Name:</b>          | ALERT_PDU                                |          |
| <b>PCO Type:</b>          | SAP0_3                                   |          |
| <b>Comments:</b>          | CC ALERTING ms <-> n<br>GSM 04.08, 9.3.1 |          |
| Field Name                | Field Type                               | Comments |
| ti                        | TI                                       |          |
| ccpd                      | PD                                       |          |
| mt                        | MT                                       |          |
| fie                       | FIE                                      |          |
| pi                        | PI                                       |          |
| uu                        | UU                                       |          |
| ssvi                      | SSVI                                     |          |
| <b>Detailed Comments:</b> |                                          |          |

| PDU Type Definition       |                                               |          |
|---------------------------|-----------------------------------------------|----------|
| <b>PDU Name:</b>          | CALL_CO_PDU                                   |          |
| <b>PCO Type:</b>          | SAP0_3                                        |          |
| <b>Comments:</b>          | CC CALL CONFIRMED ms -> n<br>GSM 04.08, 9.3.2 |          |
| Field Name                | Field Type                                    | Comments |
| ti                        | TI                                            |          |
| ccpd                      | PD                                            |          |
| mt                        | MT                                            |          |
| bcri                      | RPI                                           |          |
| bcap1                     | BCAP                                          |          |
| bcap2                     | BCAP                                          |          |
| cau                       | CAU                                           |          |
| cccap                     | CCCAP                                         |          |
| <b>Detailed Comments:</b> |                                               |          |

| PDU Type Definition       |                                                |          |
|---------------------------|------------------------------------------------|----------|
| <b>PDU Name:</b>          | CALL_PROC_PDU                                  |          |
| <b>PCO Type:</b>          | SAP0_3                                         |          |
| <b>Comments:</b>          | CC CALL PROCEEDING n -> ms<br>GSM 04.08, 9.3.3 |          |
| Field Name                | Field Type                                     | Comments |
| ti                        | TI                                             |          |
| ccpd                      | PD                                             |          |
| mt                        | MT                                             |          |
| bcri                      | RPI                                            |          |
| bcap1                     | BCAP                                           |          |
| bcap2                     | BCAP                                           |          |
| fie                       | FIE                                            |          |
| pi                        | PI                                             |          |
| <b>Detailed Comments:</b> |                                                |          |

| PDU Type Definition       |                                         |          |
|---------------------------|-----------------------------------------|----------|
| <b>PDU Name:</b>          | CONN_PDU                                |          |
| <b>PCO Type:</b>          | SAP0_3                                  |          |
| <b>Comments:</b>          | CC CONNECT n <-> ms<br>GSM 04.08, 9.3.5 |          |
| Field Name                | Field Type                              | Comments |
| ti                        | TI                                      |          |
| ccpd                      | PD                                      |          |
| mt                        | MT                                      |          |
| fie                       | FIE                                     |          |
| pi                        | PI                                      |          |
| cnn                       | CNN                                     |          |
| cns                       | CNS                                     |          |
| uu                        | UU                                      |          |
| ssvi                      | SSVI                                    |          |
| <b>Detailed Comments:</b> |                                         |          |

| PDU Type Definition       |                                                |          |
|---------------------------|------------------------------------------------|----------|
| <b>PDU Name:</b>          | CONN_PDU_ERR                                   |          |
| <b>PCO Type:</b>          | SAP0_3                                         |          |
| <b>Comments:</b>          | CC CONNECT n <-> ms<br>Used as invalid message |          |
| Field Name                | Field Type                                     | Comments |
| ti                        | TI                                             |          |
| ccpd                      | PD                                             |          |
| mt                        | MT                                             |          |
| unknown                   | UNKWN                                          |          |
| <b>Detailed Comments:</b> |                                                |          |

| PDU Type Definition       |                                                     |          |
|---------------------------|-----------------------------------------------------|----------|
| <b>PDU Name:</b>          | CONN_ACK_PDU                                        |          |
| <b>PCO Type:</b>          | SAP0_3                                              |          |
| <b>Comments:</b>          | CC CONNECT ACKNOWLEDGE ms <-> n<br>GSM 04.08, 9.3.6 |          |
| Field Name                | Field Type                                          | Comments |
| ti                        | TI                                                  |          |
| ccpd                      | PD                                                  |          |
| mt                        | MT                                                  |          |
| <b>Detailed Comments:</b> |                                                     |          |

| PDU Type Definition       |                                                              |          |
|---------------------------|--------------------------------------------------------------|----------|
| <b>PDU Name:</b>          | DISC_PDU                                                     |          |
| <b>PCO Type:</b>          | SAP0_3                                                       |          |
| <b>Comments:</b>          | CC DISCONNECT ms <-> n (both directions)<br>GSM 04.08, 9.3.7 |          |
| Field Name                | Field Type                                                   | Comments |
| ti                        | TI                                                           |          |
| ccpd                      | PD                                                           |          |
| mt                        | MT                                                           |          |
| cau                       | CAU                                                          |          |
| fie                       | FIE                                                          |          |
| pi                        | PI                                                           |          |
| uu                        | UU                                                           |          |
| ssvi                      | SSVI                                                         |          |
| <b>Detailed Comments:</b> |                                                              |          |

| PDU Type Definition       |              |          |
|---------------------------|--------------|----------|
| <b>PDU Name:</b>          | DISC_PDU_ERR |          |
| <b>PCO Type:</b>          | SAP0_3       |          |
| <b>Comments:</b>          |              |          |
| Field Name                | Field Type   | Comments |
| ti                        | TI           |          |
| ccpd                      | PD           |          |
| mt                        | MT           |          |
| cau                       | CAU          |          |
| unknown                   | UNKWN        |          |
| <b>Detailed Comments:</b> |              |          |

| PDU Type Definition       |                                                |          |
|---------------------------|------------------------------------------------|----------|
| <b>PDU Name:</b>          | ESETUP_PDU                                     |          |
| <b>PCO Type:</b>          | SAP0_3                                         |          |
| <b>Comments:</b>          | CC EMERGENCY SETUP ms -> n<br>GSM 04.08, 9.3.8 |          |
| Field Name                | Field Type                                     | Comments |
| ti                        | TI                                             |          |
| ccpd                      | PD                                             |          |
| mt                        | MT                                             |          |
| bcap                      | BCAP                                           |          |
| <b>Detailed Comments:</b> |                                                |          |

| PDU Type Definition       |                                          |          |
|---------------------------|------------------------------------------|----------|
| <b>PDU Name:</b>          | FAC_PDU                                  |          |
| <b>PCO Type:</b>          | SAP0_3                                   |          |
| <b>Comments:</b>          | CC FACILITY n <-> ms<br>GSM 04.08, 9.3.9 |          |
| Field Name                | Field Type                               | Comments |
| ti                        | TI                                       |          |
| cc_sspd                   | PD                                       |          |
| mt                        | MT                                       |          |
| fie                       | FIE                                      |          |
| ssvi                      | SSVI                                     |          |
| <b>Detailed Comments:</b> |                                          |          |

| PDU Type Definition       |                                      |          |
|---------------------------|--------------------------------------|----------|
| <b>PDU Name:</b>          | HOLD_PDU                             |          |
| <b>PCO Type:</b>          | SAP0_3                               |          |
| <b>Comments:</b>          | CC HOLD ms -> n<br>GSM 04.08, 9.3.10 |          |
| Field Name                | Field Type                           | Comments |
| ti                        | TI                                   |          |
| ccpd                      | PD                                   |          |
| mt                        | MT                                   |          |
| <b>Detailed Comments:</b> |                                      |          |

| PDU Type Definition       |                                                  |          |
|---------------------------|--------------------------------------------------|----------|
| <b>PDU Name:</b>          | HOLD_ACK_PDU                                     |          |
| <b>PCO Type:</b>          | SAP0_3                                           |          |
| <b>Comments:</b>          | CC HOLD ACKNOWLEDGE n -> ms<br>GSM 04.08, 9.3.11 |          |
| Field Name                | Field Type                                       | Comments |
| ti                        | TI                                               |          |
| ccpd                      | PD                                               |          |
| mt                        | MT                                               |          |
| <b>Detailed Comments:</b> |                                                  |          |

| PDU Type Definition       |                                         |          |
|---------------------------|-----------------------------------------|----------|
| <b>PDU Name:</b>          | MODIFY_PDU                              |          |
| <b>PCO Type:</b>          | SAP0_3                                  |          |
| <b>Comments:</b>          | CC MODIFY ms <-> n<br>GSM 04.08, 9.3.13 |          |
| Field Name                | Field Type                              | Comments |
| ti                        | TI                                      |          |
| ccpd                      | PD                                      |          |
| mt                        | MT                                      |          |
| bcap                      | BCAP                                    |          |
| llcmp                     | LLCMP                                   |          |
| hlcmp                     | HLCMP                                   |          |
| rscd                      | RCSD                                    |          |
| <b>Detailed Comments:</b> |                                         |          |

| PDU Type Definition       |                                                  |          |
|---------------------------|--------------------------------------------------|----------|
| <b>PDU Name:</b>          | MODIFY_COM_PDU                                   |          |
| <b>PCO Type:</b>          | SAP0_3                                           |          |
| <b>Comments:</b>          | CC MODIFY COMPLETE ms <-> n<br>GSM 04.08, 9.3.14 |          |
| Field Name                | Field Type                                       | Comments |
| ti                        | TI                                               |          |
| ccpd                      | PD                                               |          |
| mt                        | MT                                               |          |
| bcap                      | BCAP                                             |          |
| llcmp                     | LLCMP                                            |          |
| hlcmp                     | HLCMP                                            |          |
| rscd                      | RCSD                                             |          |
| <b>Detailed Comments:</b> |                                                  |          |

| PDU Type Definition       |                                                |          |
|---------------------------|------------------------------------------------|----------|
| <b>PDU Name:</b>          | MODIFY_REJ_PDU                                 |          |
| <b>PCO Type:</b>          | SAP0_3                                         |          |
| <b>Comments:</b>          | CC MODIFY REJECT ms <-> n<br>GSM 04.08, 9.3.15 |          |
| Field Name                | Field Type                                     | Comments |
| ti                        | TI                                             |          |
| ccpd                      | PD                                             |          |
| mt                        | MT                                             |          |
| bcap                      | BCAP                                           |          |
| cau                       | CAU                                            |          |
| llcmp                     | LLCMP                                          |          |
| hlcmp                     | HLCMP                                          |          |
| <b>Detailed Comments:</b> |                                                |          |

| PDU Type Definition       |                                         |          |
|---------------------------|-----------------------------------------|----------|
| <b>PDU Name:</b>          | NOTIFY_PDU                              |          |
| <b>PCO Type:</b>          | SAP0_3                                  |          |
| <b>Comments:</b>          | CC NOTIFY ms <-> n<br>GSM 04.08, 9.3.16 |          |
| Field Name                | Field Type                              | Comments |
| ti                        | TI                                      |          |
| ccpd                      | PD                                      |          |
| mt                        | MT                                      |          |
| nti                       | NTI                                     |          |
| <b>Detailed Comments:</b> |                                         |          |

| PDU Type Definition       |                                        |          |
|---------------------------|----------------------------------------|----------|
| <b>PDU Name:</b>          | REGISTER_PDU                           |          |
| <b>PCO Type:</b>          | SAP0_3                                 |          |
| <b>Comments:</b>          | SS REGISTER ms <-> n<br>GSM 04.80, 2.4 |          |
| Field Name                | Field Type                             | Comments |
| ti                        | TI                                     |          |
| sspd                      | PD                                     |          |
| mt                        | MT                                     |          |
| fie                       | FIE                                    |          |
| ssvi                      | SSVI                                   |          |
| <b>Detailed Comments:</b> |                                        |          |

| PDU Type Definition       |                                          |          |
|---------------------------|------------------------------------------|----------|
| <b>PDU Name:</b>          | PROG_PDU                                 |          |
| <b>PCO Type:</b>          | SAP0_3                                   |          |
| <b>Comments:</b>          | CC PROGRESS n -> ms<br>GSM 04.08, 9.3.17 |          |
| Field Name                | Field Type                               | Comments |
| ti                        | TI                                       |          |
| ccpd                      | PD                                       |          |
| mt                        | MT                                       |          |
| pi                        | PI                                       |          |
| uu                        | UU                                       |          |
| <b>Detailed Comments:</b> |                                          |          |

| PDU Type Definition       |                                          |          |
|---------------------------|------------------------------------------|----------|
| <b>PDU Name:</b>          | REL_PDU                                  |          |
| <b>PCO Type:</b>          | SAP0_3                                   |          |
| <b>Comments:</b>          | CC RELEASE n <-> ms<br>GSM 04.08, 9.3.18 |          |
| Field Name                | Field Type                               | Comments |
| ti                        | TI                                       |          |
| ccpd                      | PD                                       |          |
| mt                        | MT                                       |          |
| cau                       | CAU                                      |          |
| cau2                      | CAU                                      |          |
| fie                       | FIE                                      |          |
| uu                        | UU                                       |          |
| ssvi                      | SSVI                                     |          |
| <b>Detailed Comments:</b> |                                          |          |

| PDU Type Definition       |                                                                         |          |
|---------------------------|-------------------------------------------------------------------------|----------|
| <b>PDU Name:</b>          | REL_COM_PDU                                                             |          |
| <b>PCO Type:</b>          | SAP0_3                                                                  |          |
| <b>Comments:</b>          | CC or SS RELEASE COMPLETE n <-> ms<br>GSM 04.08, 9.3.19; GSM 04.80, 2.5 |          |
| Field Name                | Field Type                                                              | Comments |
| ti                        | TI                                                                      |          |
| cc_sspd                   | PD                                                                      |          |
| mt                        | MT                                                                      |          |
| cau                       | CAU                                                                     |          |
| fie                       | FIE                                                                     |          |
| uu                        | UU                                                                      |          |
| ssvi                      | SSVI                                                                    |          |
| <b>Detailed Comments:</b> |                                                                         |          |

| PDU Type Definition       |                                         |          |
|---------------------------|-----------------------------------------|----------|
| <b>PDU Name:</b>          | SETUP_MO_PDU                            |          |
| <b>PCO Type:</b>          | SAP0_3                                  |          |
| <b>Comments:</b>          | CC SETUP n <- ms<br>GSM 04.08, 9.3.23.2 |          |
| Field Name                | Field Type                              | Comments |
| ti                        | TI                                      |          |
| ccpd                      | PD                                      |          |
| mt                        | MT                                      |          |
| bcri                      | RPI                                     |          |
| bcap1                     | BCAP                                    |          |
| bcap2                     | BCAP                                    |          |
| fie                       | FIE                                     |          |
| cgps                      | CGPS                                    |          |
| cdpn                      | CDPN                                    |          |
| cdps                      | CDPS                                    |          |
| llcri                     | RPI                                     |          |
| llcmp1                    | LLCMP                                   |          |
| llcmp2                    | LLCMP                                   |          |
| hlcri                     | RPI                                     |          |
| hlcmp1                    | HLCMP                                   |          |
| hlcmp2                    | HLCMP                                   |          |
| uu                        | UU                                      |          |
| ssvi                      | SSVI                                    |          |
| clirsup                   | CLRSUP                                  |          |
| clirinv                   | CLRINV                                  |          |
| cccacp                    | CCCAP                                   |          |
| <b>Detailed Comments:</b> |                                         |          |



| PDU Type Definition       |                                         |          |
|---------------------------|-----------------------------------------|----------|
| <b>PDU Name:</b>          | SETUP_MT_PDU                            |          |
| <b>PCO Type:</b>          | SAP0_3                                  |          |
| <b>Comments:</b>          | CC SETUP n -> ms<br>GSM 04.08, 9.3.23.1 |          |
| Field Name                | Field Type                              | Comments |
| ti                        | TI                                      |          |
| ccpd                      | PD                                      |          |
| mt                        | MT                                      |          |
| bcri                      | RPI                                     |          |
| bcap1                     | BCAP                                    |          |
| bcap2                     | BCAP                                    |          |
| fie                       | FIE                                     |          |
| pi                        | PI                                      |          |
| sig                       | SIGNAL                                  |          |
| cgpn                      | CGPN                                    |          |
| cgps                      | CGPS                                    |          |
| cdpn                      | CDPN                                    |          |
| cdps                      | CDPS                                    |          |
| llcri                     | RPI                                     |          |
| llcmp1                    | LLCMP                                   |          |
| llcmp2                    | LLCMP                                   |          |
| hlcri                     | RPI                                     |          |
| hlcmp1                    | HLCMP                                   |          |
| hlcmp2                    | HLCMP                                   |          |
| uu                        | UU                                      |          |
| <b>Detailed Comments:</b> |                                         |          |

| PDU Type Definition       |                                 |          |
|---------------------------|---------------------------------|----------|
| <b>PDU Name:</b>          | SMSCB_PDU                       |          |
| <b>PCO Type:</b>          | SAP0_3                          |          |
| <b>Comments:</b>          | SMSCB message<br>GSM 03.41, 9.3 |          |
| Field Name                | Field Type                      | Comments |
| blocktype                 | BLOCKTYPE                       |          |
| serial_number             | SERIAL_NUMBER                   |          |
| message_id                | OCTETSTRING[2]                  |          |
| dcs                       | TPDCS                           |          |
| page_param                | BITSTRING[8]                    |          |
| message_contents          | OCTETSTRING                     |          |
| <b>Detailed Comments:</b> |                                 |          |

| PDU Type Definition       |                                            |          |
|---------------------------|--------------------------------------------|----------|
| <b>PDU Name:</b>          | START_DTMF_PDU                             |          |
| <b>PCO Type:</b>          | SAP0_3                                     |          |
| <b>Comments:</b>          | CC START DTMF ms -> n<br>GSM 04.08, 9.3.24 |          |
| Field Name                | Field Type                                 | Comments |
| ti                        | TI                                         |          |
| ccpd                      | PD                                         |          |
| mt                        | MT                                         |          |
| kpf                       | KPF                                        |          |
| <b>Detailed Comments:</b> |                                            |          |

| PDU Type Definition       |                                                        |          |
|---------------------------|--------------------------------------------------------|----------|
| <b>PDU Name:</b>          | START_DTMF_ACK_PDU                                     |          |
| <b>PCO Type:</b>          | SAP0_3                                                 |          |
| <b>Comments:</b>          | CC START DTMF ACKNOWLEDGE n -> ms<br>GSM 04.08, 9.3.25 |          |
| Field Name                | Field Type                                             | Comments |
| ti                        | TI                                                     |          |
| ccpd                      | PD                                                     |          |
| mt                        | MT                                                     |          |
| kpf                       | KPF                                                    |          |
| <b>Detailed Comments:</b> |                                                        |          |

| PDU Type Definition       |                                                   |          |
|---------------------------|---------------------------------------------------|----------|
| <b>PDU Name:</b>          | START_DTMF_REJ_PDU                                |          |
| <b>PCO Type:</b>          | SAP0_3                                            |          |
| <b>Comments:</b>          | CC START DTMF REJECT n -> ms<br>GSM 04.08, 9.3.26 |          |
| Field Name                | Field Type                                        | Comments |
| ti                        | TI                                                |          |
| ccpd                      | PD                                                |          |
| mt                        | MT                                                |          |
| cau                       | CAU                                               |          |
| <b>Detailed Comments:</b> |                                                   |          |

| PDU Type Definition       |                                         |          |
|---------------------------|-----------------------------------------|----------|
| <b>PDU Name:</b>          | CCST_PDU                                |          |
| <b>PCO Type:</b>          | SAP0_3                                  |          |
| <b>Comments:</b>          | CC STATUS n <-> ms<br>GSM 04.08, 9.3.27 |          |
| Field Name                | Field Type                              | Comments |
| ti                        | TI                                      |          |
| ccpd                      | PD                                      |          |
| mt                        | MT                                      |          |
| cau                       | CAU                                     |          |
| cst                       | CST                                     |          |
| acst                      | ACST                                    |          |
| <b>Detailed Comments:</b> |                                         |          |

| PDU Type Definition       |                                                 |          |
|---------------------------|-------------------------------------------------|----------|
| <b>PDU Name:</b>          | CCST_ENQ_PDU                                    |          |
| <b>PCO Type:</b>          | SAP0_3                                          |          |
| <b>Comments:</b>          | CC STATUS ENQUIRY ms <-> n<br>GSM 04.08, 9.3.28 |          |
| Field Name                | Field Type                                      | Comments |
| ti                        | TI                                              |          |
| ccpd                      | PD                                              |          |
| mt                        | MT                                              |          |
| <b>Detailed Comments:</b> |                                                 |          |

| PDU Type Definition       |                                           |          |
|---------------------------|-------------------------------------------|----------|
| <b>PDU Name:</b>          | STOP_DTMF_PDU                             |          |
| <b>PCO Type:</b>          | SAP0_3                                    |          |
| <b>Comments:</b>          | CC STOP DTMF ms -> n<br>GSM 04.08, 9.3.29 |          |
| Field Name                | Field Type                                | Comments |
| ti                        | TI                                        |          |
| ccpd                      | PD                                        |          |
| mt                        | MT                                        |          |
| <b>Detailed Comments:</b> |                                           |          |

| PDU Type Definition       |                                                       |          |
|---------------------------|-------------------------------------------------------|----------|
| <b>PDU Name:</b>          | STOP_DTMF_ACK_PDU                                     |          |
| <b>PCO Type:</b>          | SAP0_3                                                |          |
| <b>Comments:</b>          | CC STOP DTMF acknowledge n -> ms<br>GSM 04.08, 9.3.30 |          |
| Field Name                | Field Type                                            | Comments |
| ti                        | TI                                                    |          |
| ccpd                      | PD                                                    |          |
| mt                        | MT                                                    |          |
| <b>Detailed Comments:</b> |                                                       |          |

| PDU Type Definition                                                                                                                                                               |                                          |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----------|
| <b>PDU Name:</b>                                                                                                                                                                  | CP_DATA_PDU                              |          |
| <b>PCO Type:</b>                                                                                                                                                                  | SAP0_3                                   |          |
| <b>Comments:</b>                                                                                                                                                                  | SMS CP DATA ms <-> n<br>GSM 04.11, 7.2.1 |          |
| Field Name                                                                                                                                                                        | Field Type                               | Comments |
| ti                                                                                                                                                                                | TI                                       |          |
| smspd                                                                                                                                                                             | PD                                       |          |
| mt                                                                                                                                                                                | MT                                       |          |
| CPdata                                                                                                                                                                            | CPDATA                                   |          |
| <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>Comments:</b>          | CP DATA ACKNOWLEDGE ms <-> n<br>GSM 04.11, 7.2.2 |          |
| Field Name                | Field Type                                       | Comments |
| ti                        | TI                                               |          |
| smspd                     | PD                                               |          |
| mt                        | MT                                               |          |
| <b>Detailed Comments:</b> |                                                  |          |

| PDU Type Definition       |                                                                                                                                                         |          |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>PDU Name:</b>          | CPERR_PDU                                                                                                                                               |          |
| <b>PCO Type:</b>          | SAP0_3                                                                                                                                                  |          |
| <b>Comments:</b>          | CP_ERROR n <-> ms<br>GSM 04.11, 7.2.3                                                                                                                   |          |
| Field Name                | Field Type                                                                                                                                              | Comments |
| ti                        | TI                                                                                                                                                      |          |
| smspd                     | PD                                                                                                                                                      |          |
| mt                        | MT                                                                                                                                                      |          |
| cp_cause                  | CP_CAU                                                                                                                                                  |          |
| <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 . |          |

## Constraints Part

### Test suite type constraint declarations

### Structured type constraint declarations

| Structured Type Constraint |                                                                                                                                                          |          |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | 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) |          |
| <b>Structured Type:</b>    | BCAP                                                                                                                                                     |          |
| <b>Derivation Path:</b>    |                                                                                                                                                          |          |
| <b>Comments:</b>           | BS bearer capability without OCTET 7 for direction ms -> n                                                                                               |          |
| Element Name               | Element Value                                                                                                                                            | Comments |
| iei                        | '0000100'B                                                                                                                                               |          |
| iel                        | '07'O                                                                                                                                                    |          |
| extb3                      | '1'B                                                                                                                                                     |          |
| rchr                       | rchr1                                                                                                                                                    |          |
| cs                         | '0'B                                                                                                                                                     |          |
| tm                         | '0'B                                                                                                                                                     |          |
| itc                        | itc1                                                                                                                                                     |          |
| extb4                      | '1'B                                                                                                                                                     |          |
| spb                        | '0'B                                                                                                                                                     |          |
| strc                       | strc1                                                                                                                                                    |          |
| dplxm                      | '1'B                                                                                                                                                     |          |
| config                     | '0'B                                                                                                                                                     |          |
| nirr                       | nirr                                                                                                                                                     |          |
| est                        | '0'B                                                                                                                                                     |          |
| extb5                      | '1'B                                                                                                                                                     |          |
| accid                      | '00'B                                                                                                                                                    |          |
| ra                         | ra1                                                                                                                                                      |          |
| sacp                       | sacp                                                                                                                                                     |          |
| extb6                      | '0'B                                                                                                                                                     |          |
| l1id                       | '01'B                                                                                                                                                    |          |
| uil1                       | '0000'B                                                                                                                                                  |          |
| sb                         | sb                                                                                                                                                       |          |
| extb6a                     | '0'B                                                                                                                                                     |          |
| nsb                        | nsb1                                                                                                                                                     |          |
| nb                         | '0'B                                                                                                                                                     |          |
| ndb                        | ndb1                                                                                                                                                     |          |
| ur                         | ur1                                                                                                                                                      |          |
| extb6b                     | '0'B                                                                                                                                                     |          |
| ir                         | ir1                                                                                                                                                      |          |
| nictx                      | '0'B                                                                                                                                                     |          |
| nicrx                      | '0'B                                                                                                                                                     |          |
| pi                         | parity                                                                                                                                                   |          |
| extb6c                     | '1'B                                                                                                                                                     |          |
| ce                         | ce1                                                                                                                                                      |          |
| modemt                     | modemt1                                                                                                                                                  |          |
| extb7                      | OMIT                                                                                                                                                     |          |
| l2id                       | OMIT                                                                                                                                                     |          |
| uil2                       | OMIT                                                                                                                                                     |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                          |          |

| <b>Structured Type Constraint</b> |                                                                                                                                                   |          |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>           | 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) |          |
| <b>Structured Type:</b>           | BCAP                                                                                                                                              |          |
| <b>Derivation Path:</b>           |                                                                                                                                                   |          |
| <b>Comments:</b>                  | BS bearer capability for direction n->ms                                                                                                          |          |
| Element Name                      | Element Value                                                                                                                                     | Comments |
| iei                               | '00000100'B                                                                                                                                       |          |
| iel                               | '07'O                                                                                                                                             |          |
| extb3                             | '1'B                                                                                                                                              |          |
| rchr                              | '01'B                                                                                                                                             |          |
| cs                                | '0'B                                                                                                                                              |          |
| tm                                | '0'B                                                                                                                                              |          |
| itc                               | itc1                                                                                                                                              |          |
| extb4                             | '1'B                                                                                                                                              |          |
| spb                               | '0'B                                                                                                                                              |          |
| strc                              | strc1                                                                                                                                             |          |
| dplx                              | '1'B                                                                                                                                              |          |
| config                            | '0'B                                                                                                                                              |          |
| nirr                              | nirr                                                                                                                                              |          |
| est                               | '0'B                                                                                                                                              |          |
| extb5                             | '1'B                                                                                                                                              |          |
| accid                             | '00'B                                                                                                                                             |          |
| ra                                | ra1                                                                                                                                               |          |
| sacp                              | sacp                                                                                                                                              |          |
| extb6                             | '0'B                                                                                                                                              |          |
| l1id                              | '01'B                                                                                                                                             |          |
| uil1                              | '0000'B                                                                                                                                           |          |
| sb                                | sb                                                                                                                                                |          |
| extb6a                            | '0'B                                                                                                                                              |          |
| nbsb                              | nbsb                                                                                                                                              |          |
| nb                                | '0'B                                                                                                                                              |          |
| ndb                               | nbdb                                                                                                                                              |          |
| ur                                | ur1                                                                                                                                               |          |
| extb6b                            | '0'B                                                                                                                                              |          |
| ir                                | ir1                                                                                                                                               |          |
| nictx                             | '0'B                                                                                                                                              |          |
| nicrx                             | '0'B                                                                                                                                              |          |
| pi                                | parity                                                                                                                                            |          |
| extb6c                            | '1'B                                                                                                                                              |          |
| ce                                | ce1                                                                                                                                               |          |
| modemt                            | modemt1                                                                                                                                           |          |
| extb7                             | OMIT                                                                                                                                              |          |
| l2id                              | OMIT                                                                                                                                              |          |
| uil2                              | OMIT                                                                                                                                              |          |
| <b>Detailed Comments:</b>         |                                                                                                                                                   |          |

| Structured Type Constraint |                                                                                                                                                                      |          |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | 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) |          |
| <b>Structured Type:</b>    | BCAP                                                                                                                                                                 |          |
| <b>Derivation Path:</b>    |                                                                                                                                                                      |          |
| <b>Comments:</b>           | BS bearer capability with OCTET 7 for direction ms -> n                                                                                                              |          |
| Element Name               | Element Value                                                                                                                                                        | Comments |
| iei                        | '00000100'B                                                                                                                                                          |          |
| iel                        | ('07'O, '08'O)                                                                                                                                                       |          |
| extb3                      | '1'B                                                                                                                                                                 |          |
| rchr                       | rchr1                                                                                                                                                                |          |
| cs                         | '0'B                                                                                                                                                                 |          |
| tm                         | '0'B                                                                                                                                                                 |          |
| itc                        | itc1                                                                                                                                                                 |          |
| extb4                      | '1'B                                                                                                                                                                 |          |
| spb                        | '0'B                                                                                                                                                                 |          |
| strc                       | strc1                                                                                                                                                                |          |
| dplxm                      | '1'B                                                                                                                                                                 |          |
| config                     | '0'B                                                                                                                                                                 |          |
| nirr                       | nirr                                                                                                                                                                 |          |
| est                        | '0'B                                                                                                                                                                 |          |
| extb5                      | '1'B                                                                                                                                                                 |          |
| accid                      | '00'B                                                                                                                                                                |          |
| ra                         | ra1                                                                                                                                                                  |          |
| sacp                       | sacp                                                                                                                                                                 |          |
| extb6                      | '0'B                                                                                                                                                                 |          |
| l1id                       | '01'B                                                                                                                                                                |          |
| uil1                       | '0000'B                                                                                                                                                              |          |
| sb                         | sb                                                                                                                                                                   |          |
| extb6a                     | '0'B                                                                                                                                                                 |          |
| nsb                        | nsb1                                                                                                                                                                 |          |
| nb                         | '0'B                                                                                                                                                                 |          |
| ndb                        | ndb1                                                                                                                                                                 |          |
| ur                         | ur1                                                                                                                                                                  |          |
| extb6b                     | '0'B                                                                                                                                                                 |          |
| ir                         | ir1                                                                                                                                                                  |          |
| nictx                      | '0'B                                                                                                                                                                 |          |
| nicrx                      | '0'B                                                                                                                                                                 |          |
| pi                         | parity                                                                                                                                                               |          |
| extb6c                     | '1'B                                                                                                                                                                 |          |
| ce                         | ce1                                                                                                                                                                  |          |
| modemt                     | modemt1                                                                                                                                                              |          |
| extb7                      | '1'B IF_PRESENT                                                                                                                                                      |          |
| l2id                       | '10'B IF_PRESENT                                                                                                                                                     |          |
| uil2                       | fctl IF_PRESENT                                                                                                                                                      |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                      |          |

| Structured Type Constraint |                                                                                                                                                               |          |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | 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) |          |
| <b>Structured Type:</b>    | BCAP                                                                                                                                                          |          |
| <b>Derivation Path:</b>    |                                                                                                                                                               |          |
| <b>Comments:</b>           | BS bearer capability for direction n->ms BS 21, .. 26, except BS23                                                                                            |          |
| Element Name               | Element Value                                                                                                                                                 | Comments |
| iei                        | '00000100'B                                                                                                                                                   |          |
| iel                        | '08'O                                                                                                                                                         |          |
| extb3                      | '1'B                                                                                                                                                          |          |
| rchr                       | '01'B                                                                                                                                                         |          |
| cs                         | '0'B                                                                                                                                                          |          |
| tm                         | '0'B                                                                                                                                                          |          |
| itc                        | itc1                                                                                                                                                          |          |
| extb4                      | '1'B                                                                                                                                                          |          |
| spb                        | '0'B                                                                                                                                                          |          |
| strc                       | strc1                                                                                                                                                         |          |
| dplx                       | '1'B                                                                                                                                                          |          |
| config                     | '0'B                                                                                                                                                          |          |
| nirr                       | nirr                                                                                                                                                          |          |
| est                        | '0'B                                                                                                                                                          |          |
| extb5                      | '1'B                                                                                                                                                          |          |
| accid                      | '00'B                                                                                                                                                         |          |
| ra                         | ra1                                                                                                                                                           |          |
| sacp                       | sacp                                                                                                                                                          |          |
| extb6                      | '0'B                                                                                                                                                          |          |
| l1id                       | '01'B                                                                                                                                                         |          |
| uil1                       | '0000'B                                                                                                                                                       |          |
| sb                         | sb                                                                                                                                                            |          |
| extb6a                     | '0'B                                                                                                                                                          |          |
| nbsb                       | nbsb                                                                                                                                                          |          |
| nb                         | '0'B                                                                                                                                                          |          |
| ndb                        | nbdb                                                                                                                                                          |          |
| ur                         | ur1                                                                                                                                                           |          |
| extb6b                     | '0'B                                                                                                                                                          |          |
| ir                         | ir1                                                                                                                                                           |          |
| nictx                      | '0'B                                                                                                                                                          |          |
| nicrx                      | '0'B                                                                                                                                                          |          |
| pi                         | parity                                                                                                                                                        |          |
| extb6c                     | '1'B                                                                                                                                                          |          |
| ce                         | ce1                                                                                                                                                           |          |
| modemt                     | modemt1                                                                                                                                                       |          |
| extb7                      | '1'B                                                                                                                                                          |          |
| l2id                       | '10'B                                                                                                                                                         |          |
| uil2                       | flct                                                                                                                                                          |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                               |          |

| Structured Type Constraint |                                                              |          |
|----------------------------|--------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Bcap_02                                                      |          |
| <b>Structured Type:</b>    | BCAP                                                         |          |
| <b>Derivation Path:</b>    | Bcap_Speech_MT.                                              |          |
| <b>Comments:</b>           | invalid information element, length = 1, arbitrary contents. |          |
| Element Name               | Element Value                                                | Comments |
| iei                        | OMIT                                                         |          |
| iel                        | '01'O                                                        |          |
| extb3                      | '1'B                                                         |          |
| rchr                       | '11'B                                                        |          |
| cs                         | '0'B                                                         |          |
| tm                         | '1'B                                                         |          |
| itc                        | '110'B                                                       |          |
| <b>Detailed Comments:</b>  |                                                              |          |



| Structured Type Constraint |                                               |          |
|----------------------------|-----------------------------------------------|----------|
| <b>Constraint Name:</b>    | Bcap_Speech_MO(rcr: B_2)                      |          |
| <b>Structured Type:</b>    | BCAP                                          |          |
| <b>Derivation Path:</b>    |                                               |          |
| <b>Comments:</b>           | speech bearer capability for direction ms->n. |          |
| Element Name               | Element Value                                 | Comments |
| iei                        | '00000100'B                                   |          |
| iel                        | '01'O                                         |          |
| extb3                      | '1'B                                          |          |
| rchr                       | rcr                                           |          |
| cs                         | '0'B                                          |          |
| tm                         | '0'B                                          |          |
| itc                        | '000'B                                        |          |
| extb4                      | OMIT                                          |          |
| spb                        | OMIT                                          |          |
| strc                       | OMIT                                          |          |
| dplxm                      | OMIT                                          |          |
| config                     | OMIT                                          |          |
| nirr                       | OMIT                                          |          |
| est                        | OMIT                                          |          |
| extb5                      | OMIT                                          |          |
| accid                      | OMIT                                          |          |
| ra                         | OMIT                                          |          |
| sacp                       | OMIT                                          |          |
| extb6                      | OMIT                                          |          |
| l1id                       | OMIT                                          |          |
| uil1                       | OMIT                                          |          |
| sb                         | OMIT                                          |          |
| extb6a                     | OMIT                                          |          |
| nsb                        | OMIT                                          |          |
| nb                         | OMIT                                          |          |
| ndb                        | OMIT                                          |          |
| ur                         | OMIT                                          |          |
| extb6b                     | OMIT                                          |          |
| ir                         | OMIT                                          |          |
| nictx                      | OMIT                                          |          |
| nicrx                      | OMIT                                          |          |
| pi                         | OMIT                                          |          |
| extb6c                     | OMIT                                          |          |
| ce                         | OMIT                                          |          |
| modemt                     | OMIT                                          |          |
| extb7                      | OMIT                                          |          |
| l2id                       | OMIT                                          |          |
| uil2                       | OMIT                                          |          |
| <b>Detailed Comments:</b>  |                                               |          |

| Structured Type Constraint |                                              |          |
|----------------------------|----------------------------------------------|----------|
| <b>Constraint Name:</b>    | Bcap_Speech_MT                               |          |
| <b>Structured Type:</b>    | BCAP                                         |          |
| <b>Derivation Path:</b>    |                                              |          |
| <b>Comments:</b>           | speech bearer capability for direction n->ms |          |
| Element Name               | Element Value                                | Comments |
| iei                        | '00000100'B                                  |          |
| iel                        | '01'O                                        |          |
| extb3                      | '1'B                                         |          |
| rchr                       | '01'B                                        |          |
| cs                         | '0'B                                         |          |
| tm                         | '0'B                                         |          |
| itc                        | '000'B                                       |          |
| extb4                      | OMIT                                         |          |
| spb                        | OMIT                                         |          |
| strc                       | OMIT                                         |          |
| dplxm                      | OMIT                                         |          |
| config                     | OMIT                                         |          |
| nirr                       | OMIT                                         |          |
| est                        | OMIT                                         |          |
| extb5                      | OMIT                                         |          |
| accid                      | OMIT                                         |          |
| ra                         | OMIT                                         |          |
| sacp                       | OMIT                                         |          |
| extb6                      | OMIT                                         |          |
| l1id                       | OMIT                                         |          |
| uil1                       | OMIT                                         |          |
| sb                         | OMIT                                         |          |
| extb6a                     | OMIT                                         |          |
| nsb                        | OMIT                                         |          |
| nb                         | OMIT                                         |          |
| ndb                        | OMIT                                         |          |
| ur                         | OMIT                                         |          |
| extb6b                     | OMIT                                         |          |
| ir                         | OMIT                                         |          |
| nictx                      | OMIT                                         |          |
| nicrx                      | OMIT                                         |          |
| pi                         | OMIT                                         |          |
| extb6c                     | OMIT                                         |          |
| ce                         | OMIT                                         |          |
| modemt                     | OMIT                                         |          |
| extb7                      | OMIT                                         |          |
| l2id                       | OMIT                                         |          |
| uil2                       | OMIT                                         |          |
| <b>Detailed Comments:</b>  |                                              |          |

| Structured Type Constraint |                                                |          |
|----------------------------|------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Blocktype_01(seqnum: BITSTRING; lb: BITSTRING) |          |
| <b>Structured Type:</b>    | BLOCKTYPE                                      |          |
| <b>Derivation Path:</b>    |                                                |          |
| <b>Comments:</b>           | Block type,<br>GSM 04.12, 3.3.1                |          |
| Element Name               | Element Value                                  | Comments |
| spare1                     | '0'B                                           |          |
| lpd                        | '01'B                                          |          |
| lb                         | lb                                             |          |
| sequence_number            | seqnum                                         |          |
| <b>Detailed Comments:</b>  |                                                |          |

| Structured Type Constraint |                                                        |          |
|----------------------------|--------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_Omit                                       |          |
| <b>Structured Type:</b>    | NCD                                                    |          |
| <b>Derivation Path:</b>    |                                                        |          |
| <b>Comments:</b>           | Omit Bcch Frequency list (Neighbour cells description) |          |
| Element Name               | Element Value                                          | Comments |
| rfl2                       | OMIT                                                   |          |
| extind                     | OMIT                                                   |          |
| baind                      | OMIT                                                   |          |
| rfl4                       | OMIT                                                   |          |
| rfl                        | OMIT                                                   |          |
| <b>Detailed Comments:</b>  |                                                        |          |

| Structured Type Constraint |                                                                                                                                            |          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_01                                                                                                                             |          |
| <b>Structured Type:</b>    | NCD                                                                                                                                        |          |
| <b>Derivation Path:</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                                                                                                                              | Comments |
| rfl2                       | '00'B                                                                                                                                      |          |
| extind                     | '0'B                                                                                                                                       |          |
| baind                      | '0'B                                                                                                                                       |          |
| rfl4                       | '0000'B                                                                                                                                    |          |
| rfl                        | '80200802008000000000008000080200'O                                                                                                        |          |
| <b>Detailed Comments:</b>  |                                                                                                                                            |          |

| Structured Type Constraint |                                                                                                                                     |          |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_02                                                                                                                      |          |
| <b>Structured Type:</b>    | NCD                                                                                                                                 |          |
| <b>Derivation Path:</b>    | BcchFreqLst_01.                                                                                                                     |          |
| <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                                                                                                                       | Comments |
| rfl4                       | '0010'B                                                                                                                             |          |
| rfl                        | '040100401000000000000000004000'O                                                                                                   |          |
| <b>Detailed Comments:</b>  |                                                                                                                                     |          |

| Structured Type Constraint |                                                                                                                                                 |          |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_03                                                                                                                                  |          |
| <b>Structured Type:</b>    | NCD                                                                                                                                             |          |
| <b>Derivation Path:</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                                                                                                                                   | Comments |
| rfl2                       | '10'B                                                                                                                                           |          |
| extind                     | '0'B                                                                                                                                            |          |
| baind                      | '0'B                                                                                                                                            |          |
| rfl4                       | '1001'B                                                                                                                                         |          |
| rfl                        | '04412C168E440000000000000000'O                                                                                                                 |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                 |          |

| Structured Type Constraint |                                                                                     |          |
|----------------------------|-------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_04                                                                      |          |
| <b>Structured Type:</b>    | NCD                                                                                 |          |
| <b>Derivation Path:</b>    | BcchFreqLst_01.                                                                     |          |
| <b>Comments:</b>           | Alternative neighbour cells description for SYSTEM INFORMATION 2 and 5 for DCS1800. |          |
| Element Name               | Element Value                                                                       | Comments |
| rfl2                       | '10'B                                                                               |          |
| extind                     | '0'B                                                                                |          |
| baind                      | '0'B                                                                                |          |
| rfl4                       | '1001'B                                                                             |          |
| rfl                        | '09412C168E44000000000000000000'O                                                   |          |
| <b>Detailed Comments:</b>  |                                                                                     |          |

| Structured Type Constraint |                                                                                             |          |
|----------------------------|---------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_05                                                                              |          |
| <b>Structured Type:</b>    | NCD                                                                                         |          |
| <b>Derivation Path:</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                                                                               | Comments |
| rfl2                       | '00'B                                                                                       |          |
| extind                     | '0'B                                                                                        |          |
| baind                      | '0'B                                                                                        |          |
| rfl4                       | '1000'B                                                                                     |          |
| rfl                        | '000001001000030000004000000040'O                                                           |          |
| <b>Detailed Comments:</b>  |                                                                                             |          |

| Structured Type Constraint |                                                                                             |          |
|----------------------------|---------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_06                                                                              |          |
| <b>Structured Type:</b>    | NCD                                                                                         |          |
| <b>Derivation Path:</b>    | BcchFreqLst_05.                                                                             |          |
| <b>Comments:</b>           | cells description for SYSTEM INFORMATION 2 and 5 of cell 2 for idle mode testing of GSM900. |          |
| Element Name               | Element Value                                                                               | Comments |
| rfl4                       | '0100'B                                                                                     |          |
| rfl                        | '0000020020000C0000008000000080'O                                                           |          |
| <b>Detailed Comments:</b>  |                                                                                             |          |

| Structured Type Constraint |                                                                                             |          |
|----------------------------|---------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_07                                                                              |          |
| <b>Structured Type:</b>    | NCD                                                                                         |          |
| <b>Derivation Path:</b>    | BcchFreqLst_05.                                                                             |          |
| <b>Comments:</b>           | cells description for SYSTEM INFORMATION 2 and 5 of cell 3 for idle mode testing of GSM900. |          |
| Element Name               | Element Value                                                                               | Comments |
| rfl4                       | '0010'B                                                                                     |          |
| rfl                        | '000004004000300000010000000100'O                                                           |          |
| <b>Detailed Comments:</b>  |                                                                                             |          |

| Structured Type Constraint |                                                                                             |          |
|----------------------------|---------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_08                                                                              |          |
| <b>Structured Type:</b>    | NCD                                                                                         |          |
| <b>Derivation Path:</b>    | BcchFreqLst_05.                                                                             |          |
| <b>Comments:</b>           | cells description for SYSTEM INFORMATION 2 and 5 of cell 4 for idle mode testing of GSM900. |          |
| Element Name               | Element Value                                                                               | Comments |
| rfl4                       | '0001'B                                                                                     |          |
| rfl                        | '000008008000C00000020000000200'O                                                           |          |
| <b>Detailed Comments:</b>  |                                                                                             |          |

| Structured Type Constraint |                                                                                             |          |
|----------------------------|---------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_09                                                                              |          |
| <b>Structured Type:</b>    | NCD                                                                                         |          |
| <b>Derivation Path:</b>    | BcchFreqLst_05.                                                                             |          |
| <b>Comments:</b>           | cells description for SYSTEM INFORMATION 2 and 5 of cell 5 for idle mode testing of GSM900. |          |
| Element Name               | Element Value                                                                               | Comments |
| rfl4                       | '0000'B                                                                                     |          |
| rfl                        | '800010010003000000040000000400'O                                                           |          |
| <b>Detailed Comments:</b>  |                                                                                             |          |

| Structured Type Constraint |                                                                                             |          |
|----------------------------|---------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_10                                                                              |          |
| <b>Structured Type:</b>    | NCD                                                                                         |          |
| <b>Derivation Path:</b>    | BcchFreqLst_05.                                                                             |          |
| <b>Comments:</b>           | cells description for SYSTEM INFORMATION 2 and 5 of cell 6 for idle mode testing of GSM900. |          |
| Element Name               | Element Value                                                                               | Comments |
| rfl4                       | '0000'B                                                                                     |          |
| rfl                        | '40002002000C000000080000000800'O                                                           |          |
| <b>Detailed Comments:</b>  |                                                                                             |          |

| Structured Type Constraint |                                                                                             |          |
|----------------------------|---------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_11                                                                              |          |
| <b>Structured Type:</b>    | NCD                                                                                         |          |
| <b>Derivation Path:</b>    | BcchFreqLst_05.                                                                             |          |
| <b>Comments:</b>           | cells description for SYSTEM INFORMATION 2 and 5 of cell 7 for idle mode testing of GSM900. |          |
| Element Name               | Element Value                                                                               | Comments |
| rfl4                       | '0000'B                                                                                     |          |
| rfl                        | '200040040030000000100000001000'O                                                           |          |
| <b>Detailed Comments:</b>  |                                                                                             |          |

| Structured Type Constraint |                                                                                             |          |
|----------------------------|---------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_12                                                                              |          |
| <b>Structured Type:</b>    | NCD                                                                                         |          |
| <b>Derivation Path:</b>    | BcchFreqLst_05.                                                                             |          |
| <b>Comments:</b>           | cells description for SYSTEM INFORMATION 2 and 5 of cell 8 for idle mode testing of GSM900. |          |
| Element Name               | Element Value                                                                               | Comments |
| rfl4                       | '1000'B                                                                                     |          |
| rfl                        | '0000000000000000000000000000'O                                                             |          |
| <b>Detailed Comments:</b>  |                                                                                             |          |

| Structured Type Constraint |                                                                                              |          |
|----------------------------|----------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_13                                                                               |          |
| <b>Structured Type:</b>    | NCD                                                                                          |          |
| <b>Derivation Path:</b>    | BcchFreqLst_01.                                                                              |          |
| <b>Comments:</b>           | cells description for SYSTEM INFORMATION 2 and 5 of cell 1 for idle mode testing of DCS1800. |          |
| Element Name               | Element Value                                                                                | Comments |
| rfl2                       | '10'B                                                                                        |          |
| rfl4                       | '1001'B                                                                                      |          |
| rfl                        | '042DE8EDB149B80000000000000000'O                                                            |          |
| <b>Detailed Comments:</b>  |                                                                                              |          |

| Structured Type Constraint |                                                                                              |          |
|----------------------------|----------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_14                                                                               |          |
| <b>Structured Type:</b>    | NCD                                                                                          |          |
| <b>Derivation Path:</b>    | BcchFreqLst_01.                                                                              |          |
| <b>Comments:</b>           | cells description for SYSTEM INFORMATION 2 and 5 of cell 2 for idle mode testing of DCS1800. |          |
| Element Name               | Element Value                                                                                | Comments |
| rfl2                       | '10'B                                                                                        |          |
| rfl4                       | '1001'B                                                                                      |          |
| rfl                        | '04AE28ECF0CBB80000000000000000'O                                                            |          |
| <b>Detailed Comments:</b>  |                                                                                              |          |

| Structured Type Constraint |                                                                                              |          |
|----------------------------|----------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_15                                                                               |          |
| <b>Structured Type:</b>    | NCD                                                                                          |          |
| <b>Derivation Path:</b>    | BcchFreqLst_01.                                                                              |          |
| <b>Comments:</b>           | cells description for SYSTEM INFORMATION 2 and 5 of cell 3 for idle mode testing of DCS1800. |          |
| Element Name               | Element Value                                                                                | Comments |
| rfl2                       | '10'B                                                                                        |          |
| rfl4                       | '1001'B                                                                                      |          |
| rfl                        | '052E68EC304DB80000000000000000'O                                                            |          |
| <b>Detailed Comments:</b>  |                                                                                              |          |

| Structured Type Constraint |                                                                                              |          |
|----------------------------|----------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_16                                                                               |          |
| <b>Structured Type:</b>    | NCD                                                                                          |          |
| <b>Derivation Path:</b>    | BcchFreqLst_01.                                                                              |          |
| <b>Comments:</b>           | cells description for SYSTEM INFORMATION 2 and 5 of cell 4 for idle mode testing of DCS1800. |          |
| Element Name               | Element Value                                                                                | Comments |
| rfl2                       | '10'B                                                                                        |          |
| rfl4                       | '1001'B                                                                                      |          |
| rfl                        | '05AEA8EB6FCFB80000000000000000'O                                                            |          |
| <b>Detailed Comments:</b>  |                                                                                              |          |

| Structured Type Constraint |                                                                                              |          |
|----------------------------|----------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_17                                                                               |          |
| <b>Structured Type:</b>    | NCD                                                                                          |          |
| <b>Derivation Path:</b>    | BcchFreqLst_01.                                                                              |          |
| <b>Comments:</b>           | cells description for SYSTEM INFORMATION 2 and 5 of cell 5 for idle mode testing of DCS1800. |          |
| Element Name               | Element Value                                                                                | Comments |
| rfl2                       | '10'B                                                                                        |          |
| rfl4                       | '1001'B                                                                                      |          |
| rfl                        | '062F6869EF53B80000000000000000'O                                                            |          |
| <b>Detailed Comments:</b>  |                                                                                              |          |

| Structured Type Constraint |                                                                                              |          |
|----------------------------|----------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_18                                                                               |          |
| <b>Structured Type:</b>    | NCD                                                                                          |          |
| <b>Derivation Path:</b>    | BcchFreqLst_01.                                                                              |          |
| <b>Comments:</b>           | cells description for SYSTEM INFORMATION 2 and 5 of cell 6 for idle mode testing of DCS1800. |          |
| Element Name               | Element Value                                                                                | Comments |
| rfl2                       | '10'B                                                                                        |          |
| rfl4                       | '1001'B                                                                                      |          |
| rfl                        | '06AF28E9EED3B80000000000000000'O                                                            |          |
| <b>Detailed Comments:</b>  |                                                                                              |          |

| Structured Type Constraint |                                                                                              |          |
|----------------------------|----------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_19                                                                               |          |
| <b>Structured Type:</b>    | NCD                                                                                          |          |
| <b>Derivation Path:</b>    | BcchFreqLst_01.                                                                              |          |
| <b>Comments:</b>           | cells description for SYSTEM INFORMATION 2 and 5 of cell 7 for idle mode testing of DCS1800. |          |
| Element Name               | Element Value                                                                                | Comments |
| rfl2                       | '10'B                                                                                        |          |
| rfl4                       | '1001'B                                                                                      |          |
| rfl                        | '072F5FE900D5480000000000000000'O                                                            |          |
| <b>Detailed Comments:</b>  |                                                                                              |          |

| Structured Type Constraint |                                                                                                                                          |          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_20                                                                                                                           |          |
| <b>Structured Type:</b>    | NCD                                                                                                                                      |          |
| <b>Derivation Path:</b>    | BcchFreqLst_01.                                                                                                                          |          |
| <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                                                                                                                            | Comments |
| baind                      | '1'B                                                                                                                                     |          |
| rfl                        | '00000000000000000000000000000000'O                                                                                                      |          |
| <b>Detailed Comments:</b>  |                                                                                                                                          |          |

| Structured Type Constraint |                                                                                                                                                                                                                                                                |          |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_21                                                                                                                                                                                                                                                 |          |
| <b>Structured Type:</b>    | NCD                                                                                                                                                                                                                                                            |          |
| <b>Derivation Path:</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                                                                                                                                                                                                                                                  | Comments |
| rfl2                       | '00'B                                                                                                                                                                                                                                                          |          |
| extind                     | '0'B                                                                                                                                                                                                                                                           |          |
| baind                      | '1'B                                                                                                                                                                                                                                                           |          |
| rfl4                       | '0000'B                                                                                                                                                                                                                                                        |          |
| rfl                        | '000000000000000000000008AEBAFFBFFA'O                                                                                                                                                                                                                          |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                                                                                                                |          |

| Structured Type Constraint |                                                                                                                                                          |          |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_22                                                                                                                                           |          |
| <b>Structured Type:</b>    | NCD                                                                                                                                                      |          |
| <b>Derivation Path:</b>    | BcchFreqLst_01.                                                                                                                                          |          |
| <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                                                                                                                                            | Comments |
| baind                      | '1'B                                                                                                                                                     |          |
| rfl                        | '0000000000000000000000082000082002'O                                                                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                          |          |

| Structured Type Constraint |                                                                                                                                                     |          |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_24                                                                                                                                      |          |
| <b>Structured Type:</b>    | NCD                                                                                                                                                 |          |
| <b>Derivation Path:</b>    |                                                                                                                                                     |          |
| <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                                                                                                                                       | Comments |
| rfl2                       | '00'B                                                                                                                                               |          |
| extind                     | '1'B                                                                                                                                                |          |
| baind                      | '1'B                                                                                                                                                |          |
| rfl4                       | '0000'B                                                                                                                                             |          |
| rfl                        | '00000000000000000000000000000000'O                                                                                                                 |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                     |          |

| Structured Type Constraint |                                                                                                                                                        |          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_25                                                                                                                                         |          |
| <b>Structured Type:</b>    | NCD                                                                                                                                                    |          |
| <b>Derivation Path:</b>    |                                                                                                                                                        |          |
| <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                                                                                                                                          | Comments |
| rfl2                       | '10'B                                                                                                                                                  |          |
| extind                     | '1'B                                                                                                                                                   |          |
| baind                      | '1'B                                                                                                                                                   |          |
| rfl4                       | '0000'B                                                                                                                                                |          |
| rfl                        | '00000000000000000000000000000000'O                                                                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                        |          |



| Structured Type Constraint |                                                                                                                                                              |          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_26                                                                                                                                               |          |
| <b>Structured Type:</b>    | NCD                                                                                                                                                          |          |
| <b>Derivation Path:</b>    |                                                                                                                                                              |          |
| <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                                                                                                                                                | Comments |
| rfl2                       | '10'B                                                                                                                                                        |          |
| extind                     | '1'B                                                                                                                                                         |          |
| baind                      | '1'B                                                                                                                                                         |          |
| rfl4                       | '0001'B                                                                                                                                                      |          |
| rfl                        | 'F400000000000000000000000000000000'O                                                                                                                        |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                              |          |

| Structured Type Constraint |                                                                                                                                                                     |          |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_27                                                                                                                                                      |          |
| <b>Structured Type:</b>    | NCD                                                                                                                                                                 |          |
| <b>Derivation Path:</b>    |                                                                                                                                                                     |          |
| <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                                                                                                                                                       | Comments |
| rfl2                       | '10'B                                                                                                                                                               |          |
| extind                     | '0'B                                                                                                                                                                |          |
| baind                      | '1'B                                                                                                                                                                |          |
| rfl4                       | '0010'B                                                                                                                                                             |          |
| rfl                        | '99C6187B6D0D4C380000000000000000'O                                                                                                                                 |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                     |          |

| Structured Type Constraint |                                                                                                                                                                                                                                                                          |          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_28                                                                                                                                                                                                                                                           |          |
| <b>Structured Type:</b>    | NCD                                                                                                                                                                                                                                                                      |          |
| <b>Derivation Path:</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                                                                                                                                                                                                                                                            | Comments |
| rfl2                       | '00'B                                                                                                                                                                                                                                                                    |          |
| extind                     | '1'B                                                                                                                                                                                                                                                                     |          |
| baind                      | '1'B                                                                                                                                                                                                                                                                     |          |
| rfl4                       | '0000'B                                                                                                                                                                                                                                                                  |          |
| rfl                        | '00000000000000000000000008AEBAFFBFFA'O                                                                                                                                                                                                                                  |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                                                                                                                          |          |

| Structured Type Constraint |                                                                                                                                                                                    |          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_29                                                                                                                                                                     |          |
| <b>Structured Type:</b>    | NCD                                                                                                                                                                                |          |
| <b>Derivation Path:</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                                                                                                                                                                      | Comments |
| rfl2                       | '10'B                                                                                                                                                                              |          |
| extind                     | '1'B                                                                                                                                                                               |          |
| baind                      | '1'B                                                                                                                                                                               |          |
| rfl4                       | '0010'B                                                                                                                                                                            |          |
| rfl                        | '99E0A472E10000000000000000000000'O                                                                                                                                                |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                                    |          |

| Structured Type Constraint |                                                                                                                                                            |          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_30                                                                                                                                             |          |
| <b>Structured Type:</b>    | NCD                                                                                                                                                        |          |
| <b>Derivation Path:</b>    |                                                                                                                                                            |          |
| <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                                                                                                                                              | Comments |
| rfl2                       | '10'B                                                                                                                                                      |          |
| extind                     | '1'B                                                                                                                                                       |          |
| baind                      | '1'B                                                                                                                                                       |          |
| rfl4                       | '0111'B                                                                                                                                                    |          |
| rfl                        | '20000000000000000000000000000000'O                                                                                                                        |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                            |          |

| Structured Type Constraint |                                                                                                                                                                                 |          |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_31                                                                                                                                                                  |          |
| <b>Structured Type:</b>    | NCD                                                                                                                                                                             |          |
| <b>Derivation Path:</b>    |                                                                                                                                                                                 |          |
| <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                                                                                                                                                                   | Comments |
| rfl2                       | '10'B                                                                                                                                                                           |          |
| extind                     | '1'B                                                                                                                                                                            |          |
| baind                      | '1'B                                                                                                                                                                            |          |
| rfl4                       | '0000'B                                                                                                                                                                         |          |
| rfl                        | '1473FF8AFC00000000000000000000'O                                                                                                                                               |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                                 |          |

| Structured Type Constraint |                                                                                                                                                                         |          |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_32                                                                                                                                                          |          |
| <b>Structured Type:</b>    | NCD                                                                                                                                                                     |          |
| <b>Derivation Path:</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                                                                                                                                                           | Comments |
| rfl2                       | '10'B                                                                                                                                                                   |          |
| extind                     | '0'B                                                                                                                                                                    |          |
| baind                      | '1'B                                                                                                                                                                    |          |
| rfl4                       | '0000'B                                                                                                                                                                 |          |
| rfl                        | '5AE5B4375BC00000000000000000000'O                                                                                                                                      |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                         |          |

| Structured Type Constraint |                                                                                                                                                       |          |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_33                                                                                                                                        |          |
| <b>Structured Type:</b>    | NCD                                                                                                                                                   |          |
| <b>Derivation Path:</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                                                                                                                                         | Comments |
| rfl2                       | '00'B                                                                                                                                                 |          |
| extind                     | '1'B                                                                                                                                                  |          |
| baind                      | '1'B                                                                                                                                                  |          |
| rfl4                       | '0000'B                                                                                                                                               |          |
| rfl                        | '0000000000000000000000082000082002'O                                                                                                                 |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                       |          |

| Structured Type Constraint |                                                                                                                                                                              |          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_34                                                                                                                                                               |          |
| <b>Structured Type:</b>    | NCD                                                                                                                                                                          |          |
| <b>Derivation Path:</b>    |                                                                                                                                                                              |          |
| <b>Comments:</b>           | Neighbour cells description for SYSTEM INFORMATION 5 for DCS1800 measurement testing.<br>BA list = {549, 602, 810 }, format is range 1024, IE carries only a part of the BA. |          |
| Element Name               | Element Value                                                                                                                                                                | Comments |
| rfl2                       | '10'B                                                                                                                                                                        |          |
| extind                     | '1'B                                                                                                                                                                         |          |
| baind                      | '1'B                                                                                                                                                                         |          |
| rfl4                       | '0010'B                                                                                                                                                                      |          |
| rfl                        | '5AE5B4000000000000000000000000'O                                                                                                                                            |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                              |          |

| Structured Type Constraint |                                                                                                                                                                         |          |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_34d                                                                                                                                                         |          |
| <b>Structured Type:</b>    | NCD                                                                                                                                                                     |          |
| <b>Derivation Path:</b>    |                                                                                                                                                                         |          |
| <b>Comments:</b>           | Neighbour cells description for SYSTEM INFORMATION 5 for DCS1800 measurement testing.<br>BA list = {514, 665 }, format is range 1024, IE carries only a part of the BA. |          |
| Element Name               | Element Value                                                                                                                                                           | Comments |
| rfl2                       | '10'B                                                                                                                                                                   |          |
| extind                     | '1'B                                                                                                                                                                    |          |
| baind                      | '1'B                                                                                                                                                                    |          |
| rfl4                       | '0010'B                                                                                                                                                                 |          |
| rfl                        | '99B480000000000000000000000000'O                                                                                                                                       |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                         |          |

| Structured Type Constraint |                                                                               |          |
|----------------------------|-------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_35                                                                |          |
| <b>Structured Type:</b>    | NCD                                                                           |          |
| <b>Derivation Path:</b>    | BcchFreqLst_01.                                                               |          |
| <b>Comments:</b>           | Neighbour cells description for SYSTEM INFORMATION 5 for measurement testing. |          |
| Element Name               | Element Value                                                                 | Comments |
| baind                      | '1'B                                                                          |          |
| rfl                        | '000000000000000000000000082082082082'O                                       |          |
| <b>Detailed Comments:</b>  |                                                                               |          |

| Structured Type Constraint |                                                                               |          |
|----------------------------|-------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_36                                                                |          |
| <b>Structured Type:</b>    | NCD                                                                           |          |
| <b>Derivation Path:</b>    | BcchFreqLst_01.                                                               |          |
| <b>Comments:</b>           | Neighbour cells description for SYSTEM INFORMATION 5 for measurement testing. |          |
| Element Name               | Element Value                                                                 | Comments |
| extind                     | '1'B                                                                          |          |
| baind                      | '1'B                                                                          |          |
| rfl                        | '000000000000000000000000082082082002'O                                       |          |
| <b>Detailed Comments:</b>  |                                                                               |          |

| Structured Type Constraint |                                                                               |          |
|----------------------------|-------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_37                                                                |          |
| <b>Structured Type:</b>    | NCD                                                                           |          |
| <b>Derivation Path:</b>    |                                                                               |          |
| <b>Comments:</b>           | Neighbour cells description for SYSTEM INFORMATION 5 for measurement testing. |          |
| Element Name               | Element Value                                                                 | Comments |
| rfl2                       | '00'B                                                                         |          |
| extind                     | '1'B                                                                          |          |
| baind                      | '1'B                                                                          |          |
| rfl4                       | '0000'B                                                                       |          |
| rfl                        | '00000000000000000000000000000000A2'O                                         |          |
| <b>Detailed Comments:</b>  | only used in TC_26_6_3_5                                                      |          |

| Structured Type Constraint |                                                                   |          |
|----------------------------|-------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_38                                                    |          |
| <b>Structured Type:</b>    | NCD                                                               |          |
| <b>Derivation Path:</b>    |                                                                   |          |
| <b>Comments:</b>           | Neighbour cells description for SYSTEM INFORMATION 5 for DCS1800. |          |
| Element Name               | Element Value                                                     | Comments |
| rfl2                       | '10'B                                                             |          |
| extind                     | '1'B                                                              |          |
| baind                      | '1'B                                                              |          |
| rfl4                       | '0110'B                                                           |          |
| rfl                        | 'CBA3BEB89A9048C000000000000000'O                                 |          |
| <b>Detailed Comments:</b>  |                                                                   |          |

| Structured Type Constraint |                                                                   |          |
|----------------------------|-------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_39                                                    |          |
| <b>Structured Type:</b>    | NCD                                                               |          |
| <b>Derivation Path:</b>    |                                                                   |          |
| <b>Comments:</b>           | Neighbour cells description for SYSTEM INFORMATION 5 for DCS1800. |          |
| Element Name               | Element Value                                                     | Comments |
| rfl2                       | '10'B                                                             |          |
| extind                     | '1'B                                                              |          |
| baind                      | '1'B                                                              |          |
| rfl4                       | '1111'B                                                           |          |
| rfl                        | 'E28000000010000014500000000000'O                                 |          |
| <b>Detailed Comments:</b>  |                                                                   |          |

| Structured Type Constraint |                                                                   |          |
|----------------------------|-------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_40                                                    |          |
| <b>Structured Type:</b>    | NCD                                                               |          |
| <b>Derivation Path:</b>    |                                                                   |          |
| <b>Comments:</b>           | Neighbour cells description for SYSTEM INFORMATION 5 for DCS1800. |          |
| Element Name               | Element Value                                                     | Comments |
| rfl2                       | '10'B                                                             |          |
| extind                     | '1'B                                                              |          |
| baind                      | '1'B                                                              |          |
| rfl4                       | '1101'B                                                           |          |
| rfl                        | '5B9458000000000000000000000000'O                                 |          |
| <b>Detailed Comments:</b>  |                                                                   |          |

| Structured Type Constraint |                                                                      |          |
|----------------------------|----------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_41                                                       |          |
| <b>Structured Type:</b>    | NCD                                                                  |          |
| <b>Derivation Path:</b>    |                                                                      |          |
| <b>Comments:</b>           | Neighbour cells description for SYSTEM INFORMATION 5 BIS for GSM900. |          |
| Element Name               | Element Value                                                        | Comments |
| rfl2                       | '10'B                                                                |          |
| extind                     | '1'B                                                                 |          |
| baind                      | '1'B                                                                 |          |
| rfl4                       | '1001'B                                                              |          |
| rfl                        | '097BBA32AE888C0000000000000000'O                                    |          |
| <b>Detailed Comments:</b>  |                                                                      |          |

| Structured Type Constraint |                                                                  |          |
|----------------------------|------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_42                                                   |          |
| <b>Structured Type:</b>    | NCD                                                              |          |
| <b>Derivation Path:</b>    |                                                                  |          |
| <b>Comments:</b>           | Neighbour cells description for SYSTEM INFORMATION 5 for GSM900. |          |
| Element Name               | Element Value                                                    | Comments |
| rfl2                       | '10'B                                                            |          |
| extind                     | '1'B                                                             |          |
| baind                      | '1'B                                                             |          |
| rfl4                       | '1000'B                                                          |          |
| rfl                        | 'FA0787AE4B880000000000000000'O                                  |          |
| <b>Detailed Comments:</b>  |                                                                  |          |

| Structured Type Constraint |                                                                  |          |
|----------------------------|------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_43                                                   |          |
| <b>Structured Type:</b>    | NCD                                                              |          |
| <b>Derivation Path:</b>    |                                                                  |          |
| <b>Comments:</b>           | Neighbour cells description for SYSTEM INFORMATION 5 for GSM900. |          |
| Element Name               | Element Value                                                    | Comments |
| rfl2                       | '10'B                                                            |          |
| extind                     | '1'B                                                             |          |
| baind                      | '1'B                                                             |          |
| rfl4                       | '1111'B                                                          |          |
| rfl                        | 'E2800000001000001440000000000'O                                 |          |
| <b>Detailed Comments:</b>  |                                                                  |          |

| Structured Type Constraint |                                                                   |          |
|----------------------------|-------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_44                                                    |          |
| <b>Structured Type:</b>    | NCD                                                               |          |
| <b>Derivation Path:</b>    |                                                                   |          |
| <b>Comments:</b>           | Neighbour cells description for SYSTEM INFORMATION 5 for DCS1800. |          |
| Element Name               | Element Value                                                     | Comments |
| rfl2                       | '10'B                                                             |          |
| extind                     | '1'B                                                              |          |
| baind                      | '1'B                                                              |          |
| rfl4                       | '1011'B                                                           |          |
| rfl                        | '97E8E80CEF800000000000000000'O                                   |          |
| <b>Detailed Comments:</b>  |                                                                   |          |

| Structured Type Constraint |                                                                                            |          |
|----------------------------|--------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_45                                                                             |          |
| <b>Structured Type:</b>    | NCD                                                                                        |          |
| <b>Derivation Path:</b>    | BcchFreqLst_01.                                                                            |          |
| <b>Comments:</b>           | Default neighbour cells description of cell B for SYSTEM INFORMATION 2 and 5 under GSM900. |          |
| Element Name               | Element Value                                                                              | Comments |
| rfl                        | '80200802008000000000000000000000200'O                                                     |          |
| <b>Detailed Comments:</b>  |                                                                                            |          |

| Structured Type Constraint |                                                                                                                                       |          |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_46                                                                                                                        |          |
| <b>Structured Type:</b>    | NCD                                                                                                                                   |          |
| <b>Derivation Path:</b>    |                                                                                                                                       |          |
| <b>Comments:</b>           | Default neighbour cells description for SYSTEM INFORMATION 2bis and 5bis in cell A under EGSM with the ARFCN list = {988, 990, 1003}. |          |
| Element Name               | Element Value                                                                                                                         | Comments |
| rfl2                       | '10'B                                                                                                                                 |          |
| extind                     | '1'B                                                                                                                                  |          |
| baind                      | '0'B                                                                                                                                  |          |
| rfl4                       | '1011'B                                                                                                                               |          |
| rfl                        | 'EE07F300000000000000000000000000'O                                                                                                   |          |
| <b>Detailed Comments:</b>  |                                                                                                                                       |          |

| Structured Type Constraint |                                                                                                                                         |          |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_47                                                                                                                          |          |
| <b>Structured Type:</b>    | NCD                                                                                                                                     |          |
| <b>Derivation Path:</b>    |                                                                                                                                         |          |
| <b>Comments:</b>           | Default neighbour cells description for SYSTEM INFORMATION 2bis and 5bis in cell B under EGSM with the ARFCN list = {1005, 1010, 1015}. |          |
| Element Name               | Element Value                                                                                                                           | Comments |
| rfl2                       | '10'B                                                                                                                                   |          |
| extind                     | '1'B                                                                                                                                    |          |
| baind                      | '0'B                                                                                                                                    |          |
| rfl4                       | '1101'B                                                                                                                                 |          |
| rfl                        | 'F68AEC00000000000000000000000000'O                                                                                                     |          |
| <b>Detailed Comments:</b>  |                                                                                                                                         |          |

| Structured Type Constraint |                                                                                                                                                                                   |          |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_48                                                                                                                                                                    |          |
| <b>Structured Type:</b>    | NCD                                                                                                                                                                               |          |
| <b>Derivation Path:</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, 780, 810, 870}. |          |
| Element Name               | Element Value                                                                                                                                                                     | Comments |
| rfl2                       | '10'B                                                                                                                                                                             |          |
| extind                     | '0'B                                                                                                                                                                              |          |
| baind                      | '0'B                                                                                                                                                                              |          |
| rfl4                       | '1001'B                                                                                                                                                                           |          |
| rfl                        | '04411307BB00C8000000000000000000'O                                                                                                                                               |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                                   |          |

| Structured Type Constraint |                                                                                                                                                  |          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_50                                                                                                                                   |          |
| <b>Structured Type:</b>    | NCD                                                                                                                                              |          |
| <b>Derivation Path:</b>    | BcchFreqLst_25.                                                                                                                                  |          |
| <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                                                                                                                                    | Comments |
| extind                     | '0'B                                                                                                                                             |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                  |          |

| Structured Type Constraint |                                                                                                                                                                         |          |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_51                                                                                                                                                          |          |
| <b>Structured Type:</b>    | NCD                                                                                                                                                                     |          |
| <b>Derivation Path:</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                                                                                                                                                           | Comments |
| rfl2                       | '10'B                                                                                                                                                                   |          |
| extind                     | '1'B                                                                                                                                                                    |          |
| baind                      | '1'B                                                                                                                                                                    |          |
| rfl4                       | '0010'B                                                                                                                                                                 |          |
| rfl                        | '12F83A00000000000000000000000000'O                                                                                                                                     |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                         |          |

| Structured Type Constraint |                                                                                                                                                                  |          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_52                                                                                                                                                   |          |
| <b>Structured Type:</b>    | NCD                                                                                                                                                              |          |
| <b>Derivation Path:</b>    | BcchFreqLst_33.                                                                                                                                                  |          |
| <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                                                                                                                                                    | Comments |
| baind                      | '0'B                                                                                                                                                             |          |
| rfl4                       | '0000'B                                                                                                                                                          |          |
| rfl                        | '22000000000000000000000008800000200'O                                                                                                                           |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                  |          |

| Structured Type Constraint |                                                                                         |          |
|----------------------------|-----------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_e201                                                                        |          |
| <b>Structured Type:</b>    | NCD                                                                                     |          |
| <b>Derivation Path:</b>    | BcchFreqLst_01.                                                                         |          |
| <b>Comments:</b>           | Default neighbour cells description any cell for SYSTEM INFORMATION 2 and 5 under EGSM. |          |
| Element Name               | Element Value                                                                           | Comments |
| rfl                        | '038C0D0C000000000000000000000000'O                                                     |          |
| <b>Detailed Comments:</b>  |                                                                                         |          |

| Structured Type Constraint |                                                                                         |          |
|----------------------------|-----------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_e202                                                                        |          |
| <b>Structured Type:</b>    | NCD                                                                                     |          |
| <b>Derivation Path:</b>    | BcchFreqLst_01.                                                                         |          |
| <b>Comments:</b>           | Default neighbour cells description any cell for SYSTEM INFORMATION 2 and 5 under EGSM. |          |
| Element Name               | Element Value                                                                           | Comments |
| rfl                        | '058DEF07FE000000000000000000000'O                                                      |          |
| <b>Detailed Comments:</b>  |                                                                                         |          |

| Structured Type Constraint |                                                                                         |          |
|----------------------------|-----------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_e203                                                                        |          |
| <b>Structured Type:</b>    | NCD                                                                                     |          |
| <b>Derivation Path:</b>    | BcchFreqLst_01.                                                                         |          |
| <b>Comments:</b>           | Default neighbour cells description any cell for SYSTEM INFORMATION 2 and 5 under EGSM. |          |
| Element Name               | Element Value                                                                           | Comments |
| rfl                        | '078904797F83F98000000000000000'O                                                       |          |
| <b>Detailed Comments:</b>  |                                                                                         |          |

| Structured Type Constraint |                                                                                         |          |
|----------------------------|-----------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_e204                                                                        |          |
| <b>Structured Type:</b>    | NCD                                                                                     |          |
| <b>Derivation Path:</b>    | BcchFreqLst_01.                                                                         |          |
| <b>Comments:</b>           | Default neighbour cells description any cell for SYSTEM INFORMATION 2 and 5 under EGSM. |          |
| Element Name               | Element Value                                                                           | Comments |
| rfl                        | '0987EDFF0E3CFD0000000000000000'O                                                       |          |
| <b>Detailed Comments:</b>  |                                                                                         |          |

| Structured Type Constraint |                                                                                         |          |
|----------------------------|-----------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_e205                                                                        |          |
| <b>Structured Type:</b>    | NCD                                                                                     |          |
| <b>Derivation Path:</b>    | BcchFreqLst_01.                                                                         |          |
| <b>Comments:</b>           | Default neighbour cells description any cell for SYSTEM INFORMATION 2 and 5 under EGSM. |          |
| Element Name               | Element Value                                                                           | Comments |
| rfl                        | '078E00000020020000000000000000'O                                                       |          |
| <b>Detailed Comments:</b>  |                                                                                         |          |

| Structured Type Constraint |                                                                                         |          |
|----------------------------|-----------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_e206                                                                        |          |
| <b>Structured Type:</b>    | NCD                                                                                     |          |
| <b>Derivation Path:</b>    | BcchFreqLst_01.                                                                         |          |
| <b>Comments:</b>           | Default neighbour cells description any cell for SYSTEM INFORMATION 2 and 5 under EGSM. |          |
| Element Name               | Element Value                                                                           | Comments |
| rfl                        | '10000000000000000000000000000200'O                                                     |          |
| <b>Detailed Comments:</b>  |                                                                                         |          |

| Structured Type Constraint |                                                                                         |          |
|----------------------------|-----------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_e207                                                                        |          |
| <b>Structured Type:</b>    | NCD                                                                                     |          |
| <b>Derivation Path:</b>    | BcchFreqLst_01.                                                                         |          |
| <b>Comments:</b>           | Default neighbour cells description any cell for SYSTEM INFORMATION 2 and 5 under EGSM. |          |
| Element Name               | Element Value                                                                           | Comments |
| rfl                        | '078904797F83F98000000000000000'O                                                       |          |
| <b>Detailed Comments:</b>  |                                                                                         |          |



| Structured Type Constraint |                                                                                         |          |
|----------------------------|-----------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_e208                                                                        |          |
| <b>Structured Type:</b>    | NCD                                                                                     |          |
| <b>Derivation Path:</b>    | BcchFreqLst_01.                                                                         |          |
| <b>Comments:</b>           | Default neighbour cells description any cell for SYSTEM INFORMATION 2 and 5 under EGSM. |          |
| Element Name               | Element Value                                                                           | Comments |
| rfl                        | '058C0026D000000000000000000000'0                                                       |          |
| <b>Detailed Comments:</b>  |                                                                                         |          |

| Structured Type Constraint |                                                                                         |          |
|----------------------------|-----------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_e209                                                                        |          |
| <b>Structured Type:</b>    | NCD                                                                                     |          |
| <b>Derivation Path:</b>    | BcchFreqLst_01.                                                                         |          |
| <b>Comments:</b>           | Default neighbour cells description any cell for SYSTEM INFORMATION 2 and 5 under EGSM. |          |
| Element Name               | Element Value                                                                           | Comments |
| rfl                        | '058A00137400000000000000000000'0                                                       |          |
| <b>Detailed Comments:</b>  |                                                                                         |          |

| Structured Type Constraint |                                                                                         |          |
|----------------------------|-----------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_e210                                                                        |          |
| <b>Structured Type:</b>    | NCD                                                                                     |          |
| <b>Derivation Path:</b>    | BcchFreqLst_01.                                                                         |          |
| <b>Comments:</b>           | Default neighbour cells description any cell for SYSTEM INFORMATION 2 and 5 under EGSM. |          |
| Element Name               | Element Value                                                                           | Comments |
| rfl                        | '0583E8100500000000000000000000'0                                                       |          |
| <b>Detailed Comments:</b>  |                                                                                         |          |

| Structured Type Constraint |                                                                                         |          |
|----------------------------|-----------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_e211                                                                        |          |
| <b>Structured Type:</b>    | NCD                                                                                     |          |
| <b>Derivation Path:</b>    | BcchFreqLst_01.                                                                         |          |
| <b>Comments:</b>           | Default neighbour cells description any cell for SYSTEM INFORMATION 2 and 5 under EGSM. |          |
| Element Name               | Element Value                                                                           | Comments |
| rfl                        | '058FBA020014000000000000000000'0                                                       |          |
| <b>Detailed Comments:</b>  |                                                                                         |          |

| Structured Type Constraint |                                                                                         |          |
|----------------------------|-----------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | BcchFreqLst_e212                                                                        |          |
| <b>Structured Type:</b>    | NCD                                                                                     |          |
| <b>Derivation Path:</b>    | BcchFreqLst_01.                                                                         |          |
| <b>Comments:</b>           | Default neighbour cells description any cell for SYSTEM INFORMATION 2 and 5 under EGSM. |          |
| Element Name               | Element Value                                                                           | Comments |
| rfl                        | '06890478FCC0000000000000000000'0                                                       |          |
| <b>Detailed Comments:</b>  |                                                                                         |          |





| Structured Type Constraint                                            |                                           |          |
|-----------------------------------------------------------------------|-------------------------------------------|----------|
| <b>Constraint Name:</b>                                               | Ca3_g01                                   |          |
| <b>Structured Type:</b>                                               | CCHD                                      |          |
| <b>Derivation Path:</b>                                               |                                           |          |
| <b>Comments:</b>                                                      | 12 ARFCNs for GSM of TC_26_6_6_1          |          |
| Element Name                                                          | Element Value                             | Comments |
| iei                                                                   | '01100010'B                               |          |
| rfl                                                                   | '0000000000000000000000000000E0F0F1'<br>O |          |
| <b>Detailed Comments:</b> ca_pgsm(3) = 12, B_ARFCN = 21, not in MA(3) |                                           |          |

| Structured Type Constraint                                             |                                         |          |
|------------------------------------------------------------------------|-----------------------------------------|----------|
| <b>Constraint Name:</b>                                                | Ca3_g02                                 |          |
| <b>Structured Type:</b>                                                | CCHD                                    |          |
| <b>Derivation Path:</b>                                                |                                         |          |
| <b>Comments:</b>                                                       | 12 ARFCNs for GSM of TC_26_6_6_1        |          |
| Element Name                                                           | Element Value                           | Comments |
| iei                                                                    | '01100010'B                             |          |
| rfl                                                                    | '00010001010001012001010001018080'<br>O |          |
| <b>Detailed Comments:</b> ca_pgsm(3) = 12, B_ARFCN = 121, not in MA(3) |                                         |          |

| Structured Type Constraint                                             |                                         |          |
|------------------------------------------------------------------------|-----------------------------------------|----------|
| <b>Constraint Name:</b>                                                | Ca3_g03                                 |          |
| <b>Structured Type:</b>                                                | CCHD                                    |          |
| <b>Derivation Path:</b>                                                |                                         |          |
| <b>Comments:</b>                                                       | 12 ARFCNs for GSM of TC_26_6_6_1        |          |
| Element Name                                                           | Element Value                           | Comments |
| iei                                                                    | '01100010'B                             |          |
| rfl                                                                    | '00C0008000C000C000C000C000000010'<br>O |          |
| <b>Detailed Comments:</b> ca_pgsm(3) = 12, B_ARFCN = 103, not in MA(3) |                                         |          |

| Structured Type Constraint                                            |                                         |          |
|-----------------------------------------------------------------------|-----------------------------------------|----------|
| <b>Constraint Name:</b>                                               | Ca3_g04                                 |          |
| <b>Structured Type:</b>                                               | CCHD                                    |          |
| <b>Derivation Path:</b>                                               |                                         |          |
| <b>Comments:</b>                                                      | 12 ARFCNs for GSM of TC_26_6_6_1        |          |
| Element Name                                                          | Element Value                           | Comments |
| iei                                                                   | '01100010'B                             |          |
| rfl                                                                   | '00000000080018180000180018001880'<br>O |          |
| <b>Detailed Comments:</b> ca_pgsm(3) = 12, B_ARFCN = 93, not in MA(3) |                                         |          |

| Structured Type Constraint                                            |                                         |          |
|-----------------------------------------------------------------------|-----------------------------------------|----------|
| <b>Constraint Name:</b>                                               | Ca3_g05                                 |          |
| <b>Structured Type:</b>                                               | CCHD                                    |          |
| <b>Derivation Path:</b>                                               |                                         |          |
| <b>Comments:</b>                                                      | 12 ARFCNs for GSM of TC_26_6_6_1        |          |
| Element Name                                                          | Element Value                           | Comments |
| iei                                                                   | '01100010'B                             |          |
| rfl                                                                   | '00000000002000240024002401240024'<br>O |          |
| <b>Detailed Comments:</b> ca_pgsm(3) = 12, B_ARFCN = 83, not in MA(3) |                                         |          |

| Structured Type Constraint |                                             |          |
|----------------------------|---------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ca3_g06                                     |          |
| <b>Structured Type:</b>    | CCHD                                        |          |
| <b>Derivation Path:</b>    |                                             |          |
| <b>Comments:</b>           | 12 ARFCNs for GSM of TC_26_6_6_1            |          |
| Element Name               | Element Value                               | Comments |
| iei                        | '01100010'B                                 |          |
| rfl                        | '00300300003000000300300003000000'<br>O     |          |
| <b>Detailed Comments:</b>  | ca_pgsm(3) = 12, B_ARFCN = 45, not in MA(3) |          |

| Structured Type Constraint |                                             |          |
|----------------------------|---------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ca3_g07                                     |          |
| <b>Structured Type:</b>    | CCHD                                        |          |
| <b>Derivation Path:</b>    |                                             |          |
| <b>Comments:</b>           | 12 ARFCNs for GSM of TC_26_6_6_1            |          |
| Element Name               | Element Value                               | Comments |
| iei                        | '01100010'B                                 |          |
| rfl                        | '00101000100000080800080810128080'<br>O     |          |
| <b>Detailed Comments:</b>  | ca_pgsm(3) = 12, B_ARFCN = 85, not in MA(3) |          |

| Structured Type Constraint |                                             |          |
|----------------------------|---------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ca3_g08                                     |          |
| <b>Structured Type:</b>    | CCHD                                        |          |
| <b>Derivation Path:</b>    |                                             |          |
| <b>Comments:</b>           | 12 ARFCNs for GSM of TC_26_6_6_1            |          |
| Element Name               | Element Value                               | Comments |
| iei                        | '01100010'B                                 |          |
| rfl                        | '0F000000000003800000020000000F0'<br>O      |          |
| <b>Detailed Comments:</b>  | ca_pgsm(3) = 12, B_ARFCN = 67, not in MA(3) |          |

| Structured Type Constraint |                                             |          |
|----------------------------|---------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ca3_g09                                     |          |
| <b>Structured Type:</b>    | CCHD                                        |          |
| <b>Derivation Path:</b>    |                                             |          |
| <b>Comments:</b>           | 12 ARFCNs for GSM of TC_26_6_6_1            |          |
| Element Name               | Element Value                               | Comments |
| iei                        | '01100010'B                                 |          |
| rfl                        | '008181000000040460000000008181'<br>O       |          |
| <b>Detailed Comments:</b>  | ca_pgsm(3) = 12, B_ARFCN = 66, not in MA(3) |          |

| Structured Type Constraint |                                                              |          |
|----------------------------|--------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ca2_d01                                                      |          |
| <b>Structured Type:</b>    | CCHD                                                         |          |
| <b>Derivation Path:</b>    |                                                              |          |
| <b>Comments:</b>           | 30 ARFCNs for DCS of TC_26_6_6_1.                            |          |
| Element Name               | Element Value                                                | Comments |
| iei                        | '01100010'B                                                  |          |
| rfl                        | '8F5E00000000000000001FFFFFFF'<br>O                          |          |
| <b>Detailed Comments:</b>  | ca_dcs(2) = 30, Org_ARFCN = 700, B_ARFCN = 804, not in MA(2) |          |

| Structured Type Constraint |                                                              |          |
|----------------------------|--------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ca2_d02                                                      |          |
| <b>Structured Type:</b>    | CCHD                                                         |          |
| <b>Derivation Path:</b>    |                                                              |          |
| <b>Comments:</b>           | 30 ARFCNs for DCS of TC_26_6_6_1                             |          |
| Element Name               | Element Value                                                | Comments |
| iei                        | '01100010'B                                                  |          |
| rfl                        | '8F5E7FFF00FF00F0000E00000000000'<br>'O                      |          |
| <b>Detailed Comments:</b>  | ca_dcs(2) = 30, Org_ARFCN = 700, B_ARFCN = 705, not in MA(2) |          |

| Structured Type Constraint |                                                              |          |
|----------------------------|--------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ca2_d03                                                      |          |
| <b>Structured Type:</b>    | CCHD                                                         |          |
| <b>Derivation Path:</b>    |                                                              |          |
| <b>Comments:</b>           | 30 ARFCNs for DCS of TC_26_6_6_1                             |          |
| Element Name               | Element Value                                                | Comments |
| iei                        | '01100010'B                                                  |          |
| rfl                        | '8F5E3C00FF00FF00FF00180000000000'<br>'O                     |          |
| <b>Detailed Comments:</b>  | ca_dcs(2) = 30, Org_ARFCN = 700, B_ARFCN = 703, not in MA(2) |          |

| Structured Type Constraint |                                                              |          |
|----------------------------|--------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ca2_d04                                                      |          |
| <b>Structured Type:</b>    | CCHD                                                         |          |
| <b>Derivation Path:</b>    |                                                              |          |
| <b>Comments:</b>           | 30 ARFCNs for DCS of TC_26_6_6_1                             |          |
| Element Name               | Element Value                                                | Comments |
| iei                        | '01100010'B                                                  |          |
| rfl                        | '8F5E00000000F0000F000FF54555554'<br>O                       |          |
| <b>Detailed Comments:</b>  | ca_dcs(2) = 30, Org_ARFCN = 700, B_ARFCN = 759, not in MA(2) |          |

| Structured Type Constraint |                                                              |          |
|----------------------------|--------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ca2_d05                                                      |          |
| <b>Structured Type:</b>    | CCHD                                                         |          |
| <b>Derivation Path:</b>    |                                                              |          |
| <b>Comments:</b>           | 30 ARFCNs for DCS of TC_26_6_6_1                             |          |
| Element Name               | Element Value                                                | Comments |
| iei                        | '01100010'B                                                  |          |
| rfl                        | '8F5E2828282B0000FFFF000010101010'<br>O                      |          |
| <b>Detailed Comments:</b>  | ca_dcs(2) = 30, Org_ARFCN = 700, B_ARFCN = 730, not in MA(2) |          |

| Structured Type Constraint |                                                              |          |
|----------------------------|--------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ca2_d06                                                      |          |
| <b>Structured Type:</b>    | CCHD                                                         |          |
| <b>Derivation Path:</b>    |                                                              |          |
| <b>Comments:</b>           | 30 ARFCNs for DCS of TC_26_6_6_1                             |          |
| Element Name               | Element Value                                                | Comments |
| iei                        | '01100010'B                                                  |          |
| rfl                        | '8F5E00FF00202222222222202007E'<br>O                         |          |
| <b>Detailed Comments:</b>  | ca_dcs(2) = 30, Org_ARFCN = 700, B_ARFCN = 794, not in MA(2) |          |

| Structured Type Constraint |                                                              |          |
|----------------------------|--------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ca2_d07                                                      |          |
| <b>Structured Type:</b>    | CCHD                                                         |          |
| <b>Derivation Path:</b>    |                                                              |          |
| <b>Comments:</b>           | 30 ARFCNs for DCS of TC_26_6_6_1                             |          |
| Element Name               | Element Value                                                | Comments |
| iei                        | '01100010'B                                                  |          |
| rfl                        | '8F5E032B2B2B20000000000000000000'<br>O                      |          |
| <b>Detailed Comments:</b>  | ca_dcs(2) = 30, Org_ARFCN = 700, B_ARFCN = 734, not in MA(2) |          |

| Structured Type Constraint |                                                              |          |
|----------------------------|--------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ca2_d08                                                      |          |
| <b>Structured Type:</b>    | CCHD                                                         |          |
| <b>Derivation Path:</b>    |                                                              |          |
| <b>Comments:</b>           | 30 ARFCNs for DCS of TC_26_6_6_1                             |          |
| Element Name               | Element Value                                                | Comments |
| iei                        | '01100010'B                                                  |          |
| rfl                        | '8F5E405050501404F404000F00000000'<br>O                      |          |
| <b>Detailed Comments:</b>  | ca_dcs(2) = 30, Org_ARFCN = 700, B_ARFCN = 779, not in MA(2) |          |

| Structured Type Constraint |                                                              |          |
|----------------------------|--------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ca2_d09                                                      |          |
| <b>Structured Type:</b>    | CCHD                                                         |          |
| <b>Derivation Path:</b>    |                                                              |          |
| <b>Comments:</b>           | 30 ARFCNs for DCS of TC_26_6_6_1                             |          |
| Element Name               | Element Value                                                | Comments |
| iei                        | '01100010'B                                                  |          |
| rfl                        | '8F5E00F000F00078000C808FA0A0202F'<br>O                      |          |
| <b>Detailed Comments:</b>  | ca_dcs(2) = 30, Org_ARFCN = 700, B_ARFCN = 744, not in MA(2) |          |

| Structured Type Constraint |                                                              |          |
|----------------------------|--------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ca3_d01                                                      |          |
| <b>Structured Type:</b>    | CCHD                                                         |          |
| <b>Derivation Path:</b>    |                                                              |          |
| <b>Comments:</b>           | 12 ARFCNs for DCS of TC_26_6_6_1                             |          |
| Element Name               | Element Value                                                | Comments |
| iei                        | '01100010'B                                                  |          |
| rfl                        | '8F5E00000000000000000000000000F0F0F0'<br>O                  |          |
| <b>Detailed Comments:</b>  | ca_dcs(3) = 12, Org_ARFCN = 700, B_ARFCN = 804, not in MA(3) |          |

| Structured Type Constraint |                                                              |          |
|----------------------------|--------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ca3_d02                                                      |          |
| <b>Structured Type:</b>    | CCHD                                                         |          |
| <b>Derivation Path:</b>    |                                                              |          |
| <b>Comments:</b>           | 12 ARFCNs for DCS of TC_26_6_6_1                             |          |
| Element Name               | Element Value                                                | Comments |
| iei                        | '01100010'B                                                  |          |
| rfl                        | '8F5E7F00F8000000000000000000000000'<br>O                    |          |
| <b>Detailed Comments:</b>  | ca_dcs(3) = 12, Org_ARFCN = 700, B_ARFCN = 705, not in MA(3) |          |

| Structured Type Constraint |                                                              |          |
|----------------------------|--------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ca3_d03                                                      |          |
| <b>Structured Type:</b>    | CCHD                                                         |          |
| <b>Derivation Path:</b>    |                                                              |          |
| <b>Comments:</b>           | 12 ARFCNs for DCS of TC_26_6_6_1                             |          |
| Element Name               | Element Value                                                | Comments |
| iei                        | '01100010'B                                                  |          |
| rfl                        | '8F5E5000600C0030000C003000000000'<br>O                      |          |
| <b>Detailed Comments:</b>  | ca_dcs(3) = 12, Org_ARFCN = 700, B_ARFCN = 703, not in MA(3) |          |

| Structured Type Constraint |                                                              |          |
|----------------------------|--------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ca3_d04                                                      |          |
| <b>Structured Type:</b>    | CCHD                                                         |          |
| <b>Derivation Path:</b>    |                                                              |          |
| <b>Comments:</b>           | 12 ARFCNs for DCS of TC_26_6_6_1                             |          |
| Element Name               | Element Value                                                | Comments |
| iei                        | '01100010'B                                                  |          |
| rfl                        | '8F5E00000000000004F0000640300C00'<br>O                      |          |
| <b>Detailed Comments:</b>  | ca_dcs(3) = 12, Org_ARFCN = 700, B_ARFCN = 759, not in MA(3) |          |

| Structured Type Constraint |                                                              |          |
|----------------------------|--------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ca3_d05                                                      |          |
| <b>Structured Type:</b>    | CCHD                                                         |          |
| <b>Derivation Path:</b>    |                                                              |          |
| <b>Comments:</b>           | 12 ARFCNs for DCS of TC_26_6_6_1                             |          |
| Element Name               | Element Value                                                | Comments |
| iei                        | '01100010'B                                                  |          |
| rfl                        | '8F5E0060103300000240400000040400'<br>O                      |          |
| <b>Detailed Comments:</b>  | ca_dcs(3) = 12, Org_ARFCN = 700, B_ARFCN = 730, not in MA(3) |          |

| Structured Type Constraint |                                                              |          |
|----------------------------|--------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ca3_d06                                                      |          |
| <b>Structured Type:</b>    | CCHD                                                         |          |
| <b>Derivation Path:</b>    |                                                              |          |
| <b>Comments:</b>           | 12 ARFCNs for DCS of TC_26_6_6_1                             |          |
| Element Name               | Element Value                                                | Comments |
| iei                        | '01100010'B                                                  |          |
| rfl                        | '8F5E0000002000200000080802025858'<br>O                      |          |
| <b>Detailed Comments:</b>  | ca_dcs(3) = 12, Org_ARFCN = 700, B_ARFCN = 794, not in MA(3) |          |

| Structured Type Constraint |                                                              |          |
|----------------------------|--------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ca3_d07                                                      |          |
| <b>Structured Type:</b>    | CCHD                                                         |          |
| <b>Derivation Path:</b>    |                                                              |          |
| <b>Comments:</b>           | 12 ARFCNs for DCS of TC_26_6_6_1                             |          |
| Element Name               | Element Value                                                | Comments |
| iei                        | '01100010'B                                                  |          |
| rfl                        | '8F5E00080800600000484808080800'<br>O                        |          |
| <b>Detailed Comments:</b>  | ca_dcs(3) = 12, Org_ARFCN = 700, B_ARFCN = 734, not in MA(3) |          |



| Structured Type Constraint |                                                              |          |
|----------------------------|--------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ca3_d08                                                      |          |
| <b>Structured Type:</b>    | CCHD                                                         |          |
| <b>Derivation Path:</b>    |                                                              |          |
| <b>Comments:</b>           | 12 ARFCNs for DCS of TC_26_6_6_1                             |          |
| Element Name               | Element Value                                                | Comments |
| iei                        | '01100010'B                                                  |          |
| rfl                        | '8F5E00F00000000000000000F40404F40'<br>O                     |          |
| <b>Detailed Comments:</b>  | ca_dcs(3) = 12, Org_ARFCN = 700, B_ARFCN = 779, not in MA(3) |          |

| Structured Type Constraint |                                                              |          |
|----------------------------|--------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ca3_d09                                                      |          |
| <b>Structured Type:</b>    | CCHD                                                         |          |
| <b>Derivation Path:</b>    |                                                              |          |
| <b>Comments:</b>           | 12 ARFCNs for DCS of TC_26_6_6_1                             |          |
| Element Name               | Element Value                                                | Comments |
| iei                        | '01100010'B                                                  |          |
| rfl                        | '8F5E0020030404180000202020060000'<br>O                      |          |
| <b>Detailed Comments:</b>  | ca_dcs(3) = 12, Org_ARFCN = 700, B_ARFCN = 744, not in MA(3) |          |

| Structured Type Constraint |               |          |
|----------------------------|---------------|----------|
| <b>Constraint Name:</b>    | CallCntrlCap  |          |
| <b>Structured Type:</b>    | CCCAP         |          |
| <b>Derivation Path:</b>    |               |          |
| <b>Comments:</b>           | CC state 'st' |          |
| Element Name               | Element Value | Comments |
| iei                        | '00010101'B   |          |
| iel                        | '01'O         |          |
| spr                        | '0000000'B    |          |
| dtmf                       | TSPX_DTMF     |          |
| <b>Detailed Comments:</b>  |               |          |

| Structured Type Constraint |                           |          |
|----------------------------|---------------------------|----------|
| <b>Constraint Name:</b>    | CallState_01(st: INTEGER) |          |
| <b>Structured Type:</b>    | CST                       |          |
| <b>Derivation Path:</b>    |                           |          |
| <b>Comments:</b>           | CC state 'st'             |          |
| Element Name               | Element Value             | Comments |
| cs                         | '11'B                     |          |
| csv                        | INT_TO_BIT(st, 6)         |          |
| <b>Detailed Comments:</b>  |                           |          |

| Structured Type Constraint |                                                                           |          |
|----------------------------|---------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Cause_Def                                                                 |          |
| <b>Structured Type:</b>    | CAU                                                                       |          |
| <b>Derivation Path:</b>    |                                                                           |          |
| <b>Comments:</b>           | cause information element with any valid cause value, any valid location. |          |
| Element Name               | Element Value                                                             | Comments |
| iei                        | OMIT                                                                      |          |
| 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)  |          |
| extb3a                     | OMIT                                                                      |          |
| rec                        | OMIT                                                                      |          |
| extb4                      | ?                                                                         |          |
| cau_class                  | ?                                                                         |          |
| cau_va                     | ?                                                                         |          |
| cau_di                     | *                                                                         |          |
| <b>Detailed Comments:</b>  |                                                                           |          |

| Structured Type Constraint |                                                                    |          |
|----------------------------|--------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Cause_01                                                           |          |
| <b>Structured Type:</b>    | CAU                                                                |          |
| <b>Derivation Path:</b>    |                                                                    |          |
| <b>Comments:</b>           | cause information element with cause value = #16, location = user. |          |
| Element Name               | Element Value                                                      | Comments |
| iei                        | OMIT                                                               |          |
| iel                        | '02'O                                                              |          |
| extb3                      | '1'B                                                               |          |
| cs                         | '11'B                                                              |          |
| spb                        | '0'B                                                               |          |
| location                   | '0000'B                                                            |          |
| extb3a                     | OMIT                                                               |          |
| rec                        | OMIT                                                               |          |
| extb4                      | '1'B                                                               |          |
| cau_class                  | '001'B                                                             |          |
| cau_va                     | '0000'B                                                            |          |
| cau_di                     | OMIT                                                               |          |
| <b>Detailed Comments:</b>  |                                                                    |          |

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

| Structured Type Constraint |                 |          |
|----------------------------|-----------------|----------|
| <b>Constraint Name:</b>    | Cause_02        |          |
| <b>Structured Type:</b>    | CAU             |          |
| <b>Derivation Path:</b>    | Cause_01.       |          |
| <b>Comments:</b>           | cause value #97 |          |
| Element Name               | Element Value   | Comments |
| iel                        | ?               |          |
| location                   | ?               |          |
| extb4                      | ?               |          |
| cau_class                  | '110'B          |          |
| cau_va                     | '0001'B         |          |
| cau_di                     | *               |          |
| <b>Detailed Comments:</b>  |                 |          |

| Structured Type Constraint |                                                              |          |
|----------------------------|--------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Cause_03                                                     |          |
| <b>Structured Type:</b>    | CAU                                                          |          |
| <b>Derivation Path:</b>    | Cause_01.Cause_02.                                           |          |
| <b>Comments:</b>           | cause #98 -- message type not compatible with protocol state |          |
| Element Name               | Element Value                                                | Comments |
| cau_va                     | '0010'B                                                      |          |
| <b>Detailed Comments:</b>  |                                                              |          |

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

| Structured Type Constraint |                                                         |          |
|----------------------------|---------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Cause_04iei                                             |          |
| <b>Structured Type:</b>    | CAU                                                     |          |
| <b>Derivation Path:</b>    |                                                         |          |
| <b>Comments:</b>           | The cause value is #96 -- invalid mandatory information |          |
| Element Name               | Element Value                                           | Comments |
| iei                        | '00001000'B                                             |          |
| iel                        | ?                                                       |          |
| extb3                      | '1'B                                                    |          |
| cs                         | '11'B                                                   |          |
| spb                        | '0'B                                                    |          |
| location                   | ?                                                       |          |
| extb3a                     | OMIT                                                    |          |
| rec                        | OMIT                                                    |          |
| extb4                      | ?                                                       |          |
| cau_class                  | '110'B                                                  |          |
| cau_va                     | '0000'B                                                 |          |
| cau_di                     | *                                                       |          |
| <b>Detailed Comments:</b>  |                                                         |          |

| Structured Type Constraint |                                                           |          |
|----------------------------|-----------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Cause_06                                                  |          |
| <b>Structured Type:</b>    | CAU                                                       |          |
| <b>Derivation Path:</b>    | Cause_01.                                                 |          |
| <b>Comments:</b>           | Cause information element containing arbitrary spare bits |          |
| Element Name               | Element Value                                             | Comments |
| spb                        | '1'B                                                      |          |
| cau_class                  | '000'B                                                    |          |
| cau_va                     | '0001'B                                                   |          |
| <b>Detailed Comments:</b>  |                                                           |          |

| Structured Type Constraint |                                                   |          |
|----------------------------|---------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Cause_07                                          |          |
| <b>Structured Type:</b>    | CAU                                               |          |
| <b>Derivation Path:</b>    | Cause_01.                                         |          |
| <b>Comments:</b>           | cause information element with cause value = #81. |          |
| Element Name               | Element Value                                     | Comments |
| iei                        | '00001000'B                                       |          |
| iel                        | ?                                                 |          |
| location                   | ?                                                 |          |
| extb4                      | ?                                                 |          |
| cau_class                  | '101'B                                            |          |
| cau_va                     | '0001'B                                           |          |
| cau_di                     | *                                                 |          |
| <b>Detailed Comments:</b>  |                                                   |          |

| Structured Type Constraint |                       |          |
|----------------------------|-----------------------|----------|
| <b>Constraint Name:</b>    | Cause_08              |          |
| <b>Structured Type:</b>    | CAU                   |          |
| <b>Derivation Path:</b>    |                       |          |
| <b>Comments:</b>           | used as an unknown IE |          |
| Element Name               | Element Value         | Comments |
| iei                        | '00100100'B           |          |
| iel                        | '01'O                 |          |
| extb3                      | '1'B                  |          |
| cs                         | '11'B                 |          |
| spb                        | '1'B                  |          |
| location                   | '1111'B               |          |
| extb3a                     | OMIT                  |          |
| rec                        | OMIT                  |          |
| extb4                      | OMIT                  |          |
| cau_class                  | OMIT                  |          |
| cau_va                     | OMIT                  |          |
| cau_di                     | OMIT                  |          |
| <b>Detailed Comments:</b>  |                       |          |

| Structured Type Constraint |                       |          |
|----------------------------|-----------------------|----------|
| <b>Constraint Name:</b>    | Cause_09              |          |
| <b>Structured Type:</b>    | CAU                   |          |
| <b>Derivation Path:</b>    | Cause_08.             |          |
| <b>Comments:</b>           | used as an unknown IE |          |
| Element Name               | Element Value         | Comments |
| iei                        | '01111101'B           |          |
| iel                        | '01'O                 |          |
| extb3                      | '1'B                  |          |
| cs                         | '11'B                 |          |
| spb                        | '0'B                  |          |
| location                   | '1110'B               |          |
| <b>Detailed Comments:</b>  |                       |          |

| Structured Type Constraint |                                                                   |          |
|----------------------------|-------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Cause_10                                                          |          |
| <b>Structured Type:</b>    | CAU                                                               |          |
| <b>Derivation Path:</b>    |                                                                   |          |
| <b>Comments:</b>           | cause information element with cause value = #1, location = user. |          |
| Element Name               | Element Value                                                     | Comments |
| iei                        | '00001000'B                                                       |          |
| iel                        | '02'O                                                             |          |
| extb3                      | '1'B                                                              |          |
| cs                         | '11'B                                                             |          |
| spb                        | '0'B                                                              |          |
| location                   | '0000'B                                                           |          |
| extb3a                     | OMIT                                                              |          |
| rec                        | OMIT                                                              |          |
| extb4                      | '1'B                                                              |          |
| cau_class                  | '000'B                                                            |          |
| cau_va                     | '0001'B                                                           |          |
| cau_di                     | OMIT                                                              |          |
| <b>Detailed Comments:</b>  |                                                                   |          |

| Structured Type Constraint |                                                   |          |
|----------------------------|---------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Cause_11                                          |          |
| <b>Structured Type:</b>    | CAU                                               |          |
| <b>Derivation Path:</b>    |                                                   |          |
| <b>Comments:</b>           | cause information element with cause value = #31. |          |
| Element Name               | Element Value                                     | Comments |
| iei                        | '00001000'B                                       |          |
| iel                        | '02'O                                             |          |
| extb3                      | '1'B                                              |          |
| cs                         | '11'B                                             |          |
| spb                        | '0'B                                              |          |
| location                   | '0000'B                                           |          |
| extb3a                     | OMIT                                              |          |
| rec                        | OMIT                                              |          |
| extb4                      | '1'B                                              |          |
| cau_class                  | '001'B                                            |          |
| cau_va                     | '1111'B                                           |          |
| cau_di                     | OMIT                                              |          |
| <b>Detailed Comments:</b>  |                                                   |          |

| Structured Type Constraint |                                                   |          |
|----------------------------|---------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Cause_12                                          |          |
| <b>Structured Type:</b>    | CAU                                               |          |
| <b>Derivation Path:</b>    |                                                   |          |
| <b>Comments:</b>           | cause information element with cause value = #88. |          |
| Element Name               | Element Value                                     | Comments |
| iei                        | '00001000'B                                       |          |
| iel                        | '02'O                                             |          |
| extb3                      | '1'B                                              |          |
| cs                         | '11'B                                             |          |
| spb                        | '0'B                                              |          |
| location                   | '????'B                                           |          |
| extb3a                     | OMIT                                              |          |
| rec                        | OMIT                                              |          |
| extb4                      | '1'B                                              |          |
| cau_class                  | '101'B                                            |          |
| cau_va                     | '1000'B                                           |          |
| cau_di                     | OMIT                                              |          |
| <b>Detailed Comments:</b>  |                                                   |          |

| Structured Type Constraint |                                                   |          |
|----------------------------|---------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Cause_13                                          |          |
| <b>Structured Type:</b>    | CAU                                               |          |
| <b>Derivation Path:</b>    |                                                   |          |
| <b>Comments:</b>           | cause information element with cause value = #21. |          |
| Element Name               | Element Value                                     | Comments |
| iei                        | '00001000'B                                       |          |
| iel                        | '02'O                                             |          |
| extb3                      | '1'B                                              |          |
| cs                         | '11'B                                             |          |
| spb                        | '0'B                                              |          |
| location                   | '????'B                                           |          |
| extb3a                     | OMIT                                              |          |
| rec                        | OMIT                                              |          |
| extb4                      | '1'B                                              |          |
| cau_class                  | '001'B                                            |          |
| cau_va                     | '0101'B                                           |          |
| cau_di                     | OMIT                                              |          |
| <b>Detailed Comments:</b>  |                                                   |          |

| Structured Type Constraint                                          |               |          |
|---------------------------------------------------------------------|---------------|----------|
| <b>Constraint Name:</b> Cause_14                                    |               |          |
| <b>Structured Type:</b> CAU                                         |               |          |
| <b>Derivation Path:</b>                                             |               |          |
| <b>Comments:</b> cause information element with cause value = #102. |               |          |
| Element Name                                                        | Element Value | Comments |
| iei                                                                 | '00001000'B   |          |
| iel                                                                 | ?             |          |
| extb3                                                               | '1'B          |          |
| cs                                                                  | '11'B         |          |
| spb                                                                 | '0'B          |          |
| location                                                            | '????'B       |          |
| extb3a                                                              | OMIT          |          |
| rec                                                                 | OMIT          |          |
| extb4                                                               | ?             |          |
| cau_class                                                           | '110'B        |          |
| cau_va                                                              | '0110'B       |          |
| cau_di                                                              | *             |          |
| <b>Detailed Comments:</b>                                           |               |          |

| Structured Type Constraint                                                  |               |          |
|-----------------------------------------------------------------------------|---------------|----------|
| <b>Constraint Name:</b> Cause_15                                            |               |          |
| <b>Structured Type:</b> CAU                                                 |               |          |
| <b>Derivation Path:</b>                                                     |               |          |
| <b>Comments:</b> cause information element with cause value = #47, n -> ms. |               |          |
| Element Name                                                                | Element Value | Comments |
| iei                                                                         | OMIT          |          |
| iel                                                                         | '02'O         |          |
| extb3                                                                       | '1'B          |          |
| cs                                                                          | '11'B         |          |
| spb                                                                         | '0'B          |          |
| location                                                                    | '0010'B       |          |
| extb3a                                                                      | OMIT          |          |
| rec                                                                         | OMIT          |          |
| extb4                                                                       | '1'B          |          |
| cau_class                                                                   | '010'B        |          |
| cau_va                                                                      | '1111'B       |          |
| cau_di                                                                      | OMIT          |          |
| <b>Detailed Comments:</b>                                                   |               |          |

| Structured Type Constraint |                                                                                                      |          |
|----------------------------|------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Cause_16                                                                                             |          |
| <b>Structured Type:</b>    | CAU                                                                                                  |          |
| <b>Derivation Path:</b>    |                                                                                                      |          |
| <b>Comments:</b>           | cause information element with cause value = #58 bearer capability not presently available, n -> ms. |          |
| Element Name               | Element Value                                                                                        | Comments |
| iei                        | OMIT                                                                                                 |          |
| iel                        | '02'O                                                                                                |          |
| extb3                      | '1'B                                                                                                 |          |
| cs                         | '11'B                                                                                                |          |
| spb                        | '0'B                                                                                                 |          |
| location                   | '0010'B                                                                                              |          |
| extb3a                     | OMIT                                                                                                 |          |
| rec                        | OMIT                                                                                                 |          |
| extb4                      | '1'B                                                                                                 |          |
| cau_class                  | '011'B                                                                                               |          |
| cau_va                     | '1010'B                                                                                              |          |
| cau_di                     | OMIT                                                                                                 |          |
| <b>Detailed Comments:</b>  |                                                                                                      |          |

| Structured Type Constraint |                                                                                             |          |
|----------------------------|---------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Cause_17                                                                                    |          |
| <b>Structured Type:</b>    | CAU                                                                                         |          |
| <b>Derivation Path:</b>    |                                                                                             |          |
| <b>Comments:</b>           | optional (IEI present) cause information element with cause value = #17 user busy. ms -> n. |          |
| Element Name               | Element Value                                                                               | Comments |
| iei                        | '00001000'B                                                                                 |          |
| iel                        | ?                                                                                           |          |
| extb3                      | '1'B                                                                                        |          |
| cs                         | '11'B                                                                                       |          |
| spb                        | '0'B                                                                                        |          |
| location                   | '????'B                                                                                     |          |
| extb3a                     | OMIT                                                                                        |          |
| rec                        | OMIT                                                                                        |          |
| extb4                      | ?                                                                                           |          |
| cau_class                  | '001'B                                                                                      |          |
| cau_va                     | '0001'B                                                                                     |          |
| cau_di                     | *                                                                                           |          |
| <b>Detailed Comments:</b>  |                                                                                             |          |



| Structured Type Constraint |                                                                                       |          |
|----------------------------|---------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Cause_18                                                                              |          |
| <b>Structured Type:</b>    | CAU                                                                                   |          |
| <b>Derivation Path:</b>    |                                                                                       |          |
| <b>Comments:</b>           | cause information element with cause value = #30 response to status enquiry. ms -> n. |          |
| Element Name               | Element Value                                                                         | Comments |
| iei                        | OMIT                                                                                  |          |
| iel                        | ?                                                                                     |          |
| extb3                      | '1'B                                                                                  |          |
| cs                         | '11'B                                                                                 |          |
| spb                        | '0'B                                                                                  |          |
| location                   | '????'B                                                                               |          |
| extb3a                     | OMIT                                                                                  |          |
| rec                        | OMIT                                                                                  |          |
| extb4                      | ?                                                                                     |          |
| cau_class                  | '001'B                                                                                |          |
| cau_va                     | '1110'B                                                                               |          |
| cau_di                     | *                                                                                     |          |
| <b>Detailed Comments:</b>  |                                                                                       |          |

| Structured Type Constraint |                                                   |          |
|----------------------------|---------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Cause_22                                          |          |
| <b>Structured Type:</b>    | CAU                                               |          |
| <b>Derivation Path:</b>    |                                                   |          |
| <b>Comments:</b>           | cause information element with cause value = #81. |          |
| Element Name               | Element Value                                     | Comments |
| iei                        | '00001000'B                                       |          |
| iel                        | '02'O                                             |          |
| extb3                      | '1'B                                              |          |
| cs                         | '11'B                                             |          |
| spb                        | '0'B                                              |          |
| location                   | '????'B                                           |          |
| extb3a                     | OMIT                                              |          |
| rec                        | OMIT                                              |          |
| extb4                      | '1'B                                              |          |
| cau_class                  | '101'B                                            |          |
| cau_va                     | '0001'B                                           |          |
| cau_di                     | OMIT                                              |          |
| <b>Detailed Comments:</b>  |                                                   |          |

| Structured Type Constraint |                                                    |          |
|----------------------------|----------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Cause_23                                           |          |
| <b>Structured Type:</b>    | CAU                                                |          |
| <b>Derivation Path:</b>    |                                                    |          |
| <b>Comments:</b>           | cause information element with cause value = #102. |          |
| Element Name               | Element Value                                      | Comments |
| iei                        | '00001000'B                                        |          |
| iel                        | '02'O                                              |          |
| extb3                      | '1'B                                               |          |
| cs                         | '11'B                                              |          |
| spb                        | '0'B                                               |          |
| location                   | '0000'B                                            |          |
| extb3a                     | OMIT                                               |          |
| rec                        | OMIT                                               |          |
| extb4                      | '1'B                                               |          |
| cau_class                  | '110'B                                             |          |
| cau_va                     | '0110'B                                            |          |
| cau_di                     | OMIT                                               |          |
| <b>Detailed Comments:</b>  |                                                    |          |

| Structured Type Constraint |                                                                          |          |
|----------------------------|--------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Cause_26                                                                 |          |
| <b>Structured Type:</b>    | CAU                                                                      |          |
| <b>Derivation Path:</b>    |                                                                          |          |
| <b>Comments:</b>           | cause information element with cause value = #16, location = user. n->ms |          |
| Element Name               | Element Value                                                            | Comments |
| iei                        | '00001000'B                                                              |          |
| iel                        | '02'O                                                                    |          |
| extb3                      | '1'B                                                                     |          |
| cs                         | '11'B                                                                    |          |
| spb                        | '0'B                                                                     |          |
| location                   | '0000'B                                                                  |          |
| extb3a                     | OMIT                                                                     |          |
| rec                        | OMIT                                                                     |          |
| extb4                      | '1'B                                                                     |          |
| cau_class                  | '001'B                                                                   |          |
| cau_va                     | '0000'B                                                                  |          |
| cau_di                     | OMIT                                                                     |          |
| <b>Detailed Comments:</b>  |                                                                          |          |

| Structured Type Constraint |                         |          |
|----------------------------|-------------------------|----------|
| <b>Constraint Name:</b>    | Cause_27                |          |
| <b>Structured Type:</b>    | CAU                     |          |
| <b>Derivation Path:</b>    | Cause_26.               |          |
| <b>Comments:</b>           | cause value #88, ms->n. |          |
| Element Name               | Element Value           | Comments |
| iel                        | ?                       |          |
| location                   | ?                       |          |
| extb4                      | ?                       |          |
| cau_class                  | '101'B                  |          |
| cau_va                     | '1000'B                 |          |
| cau_di                     | *                       |          |
| <b>Detailed Comments:</b>  |                         |          |

| Structured Type Constraint                                                                      |               |          |
|-------------------------------------------------------------------------------------------------|---------------|----------|
| <b>Constraint Name:</b> Cause_28                                                                |               |          |
| <b>Structured Type:</b> CAU                                                                     |               |          |
| <b>Derivation Path:</b>                                                                         |               |          |
| <b>Comments:</b> cause information element with cause value = #29 'facility rejected', n -> ms. |               |          |
| Element Name                                                                                    | Element Value | Comments |
| iei                                                                                             | '00001000'B   |          |
| iel                                                                                             | '02'O         |          |
| extb3                                                                                           | '1'B          |          |
| cs                                                                                              | '11'B         |          |
| spb                                                                                             | '0'B          |          |
| location                                                                                        | '0010'B       |          |
| extb3a                                                                                          | OMIT          |          |
| rec                                                                                             | OMIT          |          |
| extb4                                                                                           | '1'B          |          |
| cau_class                                                                                       | '001'B        |          |
| cau_va                                                                                          | '1101'B       |          |
| cau_di                                                                                          | OMIT          |          |
| <b>Detailed Comments:</b>                                                                       |               |          |

| Structured Type Constraint      |               |          |
|---------------------------------|---------------|----------|
| <b>Constraint Name:</b> Cdpn_01 |               |          |
| <b>Structured Type:</b> CDPN    |               |          |
| <b>Derivation Path:</b>         |               |          |
| <b>Comments:</b>                |               |          |
| Element Name                    | Element Value | Comments |
| iei                             | '01011110'B   |          |
| iel                             | '02'O         |          |
| tonnpi                          | TonNpi_02     |          |
| digits                          | '01'O         |          |
| <b>Detailed Comments:</b>       |               |          |

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

| Structured Type Constraint             |               |          |
|----------------------------------------|---------------|----------|
| <b>Constraint Name:</b> CellChDes_Omit |               |          |
| <b>Structured Type:</b> CCHD           |               |          |
| <b>Derivation Path:</b>                |               |          |
| <b>Comments:</b> Omit descriptor       |               |          |
| Element Name                           | Element Value | Comments |
| iei                                    | OMIT          |          |
| rfl                                    | OMIT          |          |
| <b>Detailed Comments:</b>              |               |          |

| Structured Type Constraint |                                         |          |
|----------------------------|-----------------------------------------|----------|
| <b>Constraint Name:</b>    | CellChDes_01                            |          |
| <b>Structured Type:</b>    | CCHD                                    |          |
| <b>Derivation Path:</b>    |                                         |          |
| <b>Comments:</b>           | ARFCN = 124                             |          |
| Element Name               | Element Value                           | Comments |
| iei                        | '01100010'B                             |          |
| rfl                        | '38000000000000000000000000000000'<br>O |          |
| <b>Detailed Comments:</b>  |                                         |          |

| Structured Type Constraint |                                         |          |
|----------------------------|-----------------------------------------|----------|
| <b>Constraint Name:</b>    | CellChDes_01d                           |          |
| <b>Structured Type:</b>    | CCHD                                    |          |
| <b>Derivation Path:</b>    |                                         |          |
| <b>Comments:</b>           | ARFCN = 801                             |          |
| Element Name               | Element Value                           | Comments |
| iei                        | '01100010'B                             |          |
| rfl                        | 'BF908000000000000000000000000000'<br>O |          |
| <b>Detailed Comments:</b>  |                                         |          |

| Structured Type Constraint |                                                                        |          |
|----------------------------|------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | CellChDes_02                                                           |          |
| <b>Structured Type:</b>    | CCHD                                                                   |          |
| <b>Derivation Path:</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                                                          | Comments |
| iei                        | OMIT                                                                   |          |
| rfl                        | '00000000000000200002000020080000'<br>O                                |          |
| <b>Detailed Comments:</b>  |                                                                        |          |

| Structured Type Constraint |                                                                                    |          |
|----------------------------|------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | CellChDes_03                                                                       |          |
| <b>Structured Type:</b>    | CCHD                                                                               |          |
| <b>Derivation Path:</b>    |                                                                                    |          |
| <b>Comments:</b>           | for cell A in RR testing of DCS 1 800 with the ARFCN list = {590, 650, 750, 850}.. |          |
| Element Name               | Element Value                                                                      | Comments |
| iei                        | OMIT                                                                               |          |
| rfl                        | '89272827190000000000000000000000'<br>O                                            |          |
| <b>Detailed Comments:</b>  |                                                                                    |          |

| Structured Type Constraint |                                         |          |
|----------------------------|-----------------------------------------|----------|
| <b>Constraint Name:</b>    | CellChDes_04                            |          |
| <b>Structured Type:</b>    | CCHD                                    |          |
| <b>Derivation Path:</b>    |                                         |          |
| <b>Comments:</b>           | for cell B in RR testing of GSM 900.    |          |
| Element Name               | Element Value                           | Comments |
| iei                        | OMIT                                    |          |
| rfl                        | '00000000000000000000000000000200'<br>O |          |
| <b>Detailed Comments:</b>  |                                         |          |











| Structured Type Constraint |                                                                                                                                                                                   |          |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | CellChDes_201_Ad                                                                                                                                                                  |          |
| <b>Structured Type:</b>    | CCHD                                                                                                                                                                              |          |
| <b>Derivation Path:</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                                                                                                                                                                     | Comments |
| iei                        | OMIT                                                                                                                                                                              |          |
| rfl                        | '8B6F14F32FC602C59EFA5499940000<br>0'O                                                                                                                                            |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                                   |          |

| Structured Type Constraint |                                                                                                                                                                                                                                        |          |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | CellChDes_202_Ad                                                                                                                                                                                                                       |          |
| <b>Structured Type:</b>    | CCHD                                                                                                                                                                                                                                   |          |
| <b>Derivation Path:</b>    | CellChDes_01.                                                                                                                                                                                                                          |          |
| <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.<br>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                                                                                                                                                                                                                          | Comments |
| rfl                        | '896F0A7CC5FC700A8B9F7FF45246334<br>0'O                                                                                                                                                                                                |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                                                                                        |          |

| Structured Type Constraint |                                                                                                                                                               |          |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | CellChDes_203_Ad                                                                                                                                              |          |
| <b>Structured Type:</b>    | CCHD                                                                                                                                                          |          |
| <b>Derivation Path:</b>    |                                                                                                                                                               |          |
| <b>Comments:</b>           | Cell Channel Description for cell A in TC_26_6_13 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                                                                                                                                                 | Comments |
| iei                        | OMIT                                                                                                                                                          |          |
| rfl                        | '8B6F1473F32FC602C59EFA54999400<br>0'O                                                                                                                        |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                               |          |

| Structured Type Constraint |                                                                                                                                                                                                                                     |          |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | CellChDes_202_Adman                                                                                                                                                                                                                 |          |
| <b>Structured Type:</b>    | CCHD                                                                                                                                                                                                                                |          |
| <b>Derivation Path:</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.<br>ARFCN_list={734,741,747,754,759,762,766,767,773,775,779,782,791,798,829,832,844} |          |
| Element Name               | Element Value                                                                                                                                                                                                                       | Comments |
| iei                        | OMIT                                                                                                                                                                                                                                |          |
| rfl                        | '896F0A7CC5FC700A8B9F7FF45246334<br>0'O                                                                                                                                                                                             |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                                                                                     |          |

| Structured Type Constraint |                                                                                                                                                |          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | CellChDes_20_B                                                                                                                                 |          |
| <b>Structured Type:</b>    | CCHD                                                                                                                                           |          |
| <b>Derivation Path:</b>    | CellChDes_01.                                                                                                                                  |          |
| <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                                                                                                                                  | Comments |
| rfl                        | '0002080000000F02080000A060A22000'<br>O                                                                                                        |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                |          |

| Structured Type Constraint |                                                                                                                                                |          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | CellChDes_20_Bman                                                                                                                              |          |
| <b>Structured Type:</b>    | CCHD                                                                                                                                           |          |
| <b>Derivation Path:</b>    | CellChDes_01.                                                                                                                                  |          |
| <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                                                                                                                                  | Comments |
| iei                        | OMIT                                                                                                                                           |          |
| rfl                        | '0002080000000F02080000A060A22000'<br>O                                                                                                        |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                |          |

| Structured Type Constraint |                                                                                                   |          |
|----------------------------|---------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | CellChDes_20_Be(par_rfl: OCTETSTRING)                                                             |          |
| <b>Structured Type:</b>    | CCHD                                                                                              |          |
| <b>Derivation Path:</b>    | CellChDes_01.                                                                                     |          |
| <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                                                                                     | Comments |
| iei                        | '01100010'B                                                                                       |          |
| rfl                        | par_rfl                                                                                           |          |
| <b>Detailed Comments:</b>  |                                                                                                   |          |

| Structured Type Constraint |                                                                                                                                                                               |          |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | CellChDes_201_Bd                                                                                                                                                              |          |
| <b>Structured Type:</b>    | CCHD                                                                                                                                                                          |          |
| <b>Derivation Path:</b>    | CellChDes_01.                                                                                                                                                                 |          |
| <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                                                                                                                                                                 | Comments |
| iei                        | OMIT                                                                                                                                                                          |          |
| rfl                        | '8A71907137B602C5DEF7A348D800000'<br>O                                                                                                                                        |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                               |          |

| Structured Type Constraint |                                                                                                                                                               |          |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | CellChDes_20_B0d                                                                                                                                              |          |
| <b>Structured Type:</b>    | CCHD                                                                                                                                                          |          |
| <b>Derivation Path:</b>    |                                                                                                                                                               |          |
| <b>Comments:</b>           | the complete Cell Allocation List_ARFCN= complete cell allocation of cell B in HO cases.<br>{739,743,746,749,756,758,761,764,771,779,782,791,798,829,832,844} |          |
| Element Name               | Element Value                                                                                                                                                 | Comments |
| iei                        | '01100010'B                                                                                                                                                   |          |
| rfl                        | '8F718920524080900810000000240040'<br>O                                                                                                                       |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                               |          |

| Structured Type Constraint |                                                                                                    |          |
|----------------------------|----------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | CellChDes_21_B                                                                                     |          |
| <b>Structured Type:</b>    | CCHD                                                                                               |          |
| <b>Derivation Path:</b>    | CellChDes_01.                                                                                      |          |
| <b>Comments:</b>           | for any cell in RR testing of GSM 900 HO cases with the<br>ARFCN_list={40,66,73,74,75,76,108,114}. |          |
| Element Name               | Element Value                                                                                      | Comments |
| rfl                        | '0002080000000F000400008000000000'<br>O                                                            |          |
| <b>Detailed Comments:</b>  |                                                                                                    |          |

| Structured Type Constraint |                                                                                                           |          |
|----------------------------|-----------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | CellChDes_21_Bd                                                                                           |          |
| <b>Structured Type:</b>    | CCHD                                                                                                      |          |
| <b>Derivation Path:</b>    | CellChDes_01.                                                                                             |          |
| <b>Comments:</b>           | for cell B in RR testing of GSM 900 HO cases with the<br>List_ARFCN={761,764,771,779,782,791,798,829,832} |          |
| Element Name               | Element Value                                                                                             | Comments |
| rfl                        | '897C87BD09BC61060F90000000000000'<br>O                                                                   |          |
| <b>Detailed Comments:</b>  |                                                                                                           |          |

| Structured Type Constraint |                                            |          |
|----------------------------|--------------------------------------------|----------|
| <b>Constraint Name:</b>    | CellChDes_22                               |          |
| <b>Structured Type:</b>    | CCHD                                       |          |
| <b>Derivation Path:</b>    |                                            |          |
| <b>Comments:</b>           | for cell A in EGSM testing: 20, 30, 50, 70 |          |
| Element Name               | Element Value                              | Comments |
| iei                        | OMIT                                       |          |
| rfl                        | '00000000000000200002000020080000'<br>O    |          |
| <b>Detailed Comments:</b>  |                                            |          |

| Structured Type Constraint |                                                                                              |          |
|----------------------------|----------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | CellChDes_23A                                                                                |          |
| <b>Structured Type:</b>    | CCHD                                                                                         |          |
| <b>Derivation Path:</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                                                                                | Comments |
| iei                        | OMIT                                                                                         |          |
| rfl                        | '0002080000007F020000008000080000'<br>O                                                      |          |
| <b>Detailed Comments:</b>  |                                                                                              |          |

| Structured Type Constraint |                                                                    |          |
|----------------------------|--------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | CellChDes_23B                                                      |          |
| <b>Structured Type:</b>    | CCHD                                                               |          |
| <b>Derivation Path:</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                                                      | Comments |
| iei                        | OMIT                                                               |          |
| rfl                        | '0000000000000000480000800000A00'<br>O                             |          |
| <b>Detailed Comments:</b>  |                                                                    |          |

| Structured Type Constraint |                |          |
|----------------------------|----------------|----------|
| <b>Constraint Name:</b>    | CellChDes_omit |          |
| <b>Structured Type:</b>    | CCHD           |          |
| <b>Derivation Path:</b>    |                |          |
| <b>Comments:</b>           |                |          |
| Element Name               | Element Value  | Comments |
| iei                        | OMIT           |          |
| rfl                        | OMIT           |          |
| <b>Detailed Comments:</b>  |                |          |

| Structured Type Constraint |                                                                                                        |          |
|----------------------------|--------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | CellChDes_r01                                                                                          |          |
| <b>Structured Type:</b>    | CCHD                                                                                                   |          |
| <b>Derivation Path:</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                                                                                          | Comments |
| iei                        | '01100010'B                                                                                            |          |
| rfl                        | '8D8299C22EF52CC00000000000000000'<br>O                                                                |          |
| <b>Detailed Comments:</b>  |                                                                                                        |          |

| Structured Type Constraint |                                                                     |          |
|----------------------------|---------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | CellChDes_r02                                                       |          |
| <b>Structured Type:</b>    | CCHD                                                                |          |
| <b>Derivation Path:</b>    |                                                                     |          |
| <b>Comments:</b>           | for cell A in RR testing of GSM 900 with the ARFCN_list={741, 747}. |          |
| Element Name               | Element Value                                                       | Comments |
| iei                        | '01100010'B                                                         |          |
| rfl                        | '8F728200000000000000000000000000'<br>O                             |          |
| <b>Detailed Comments:</b>  |                                                                     |          |

| Structured Type Constraint |                                                                                                         |          |
|----------------------------|---------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | CellChDes_r03                                                                                           |          |
| <b>Structured Type:</b>    | CCHD                                                                                                    |          |
| <b>Derivation Path:</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                                                                                           | Comments |
| iei                        | '01100010'B                                                                                             |          |
| rfl                        | '000208000000000F0204083000000000'<br>O                                                                 |          |
| <b>Detailed Comments:</b>  |                                                                                                         |          |



| Structured Type Constraint |                             |          |
|----------------------------|-----------------------------|----------|
| <b>Constraint Name:</b>    | CellOpt_03                  |          |
| <b>Structured Type:</b>    | CO                          |          |
| <b>Derivation Path:</b>    |                             |          |
| <b>Comments:</b>           | used in measurement testing |          |
| Element Name               | Element Value               | Comments |
| sprb                       | '0'B                        |          |
| pwrC                       | '1'B                        |          |
| dtX                        | '01'B                       |          |
| rt                         | '0001'B                     |          |
| <b>Detailed Comments:</b>  |                             |          |

| Structured Type Constraint |                          |          |
|----------------------------|--------------------------|----------|
| <b>Constraint Name:</b>    | CellOpt_04               |          |
| <b>Structured Type:</b>    | CO                       |          |
| <b>Derivation Path:</b>    |                          |          |
| <b>Comments:</b>           | spare bit is set to '1'B |          |
| Element Name               | Element Value            | Comments |
| sprb                       | '1'B                     |          |
| pwrC                       | '0'B                     |          |
| dtX                        | '10'B                    |          |
| rt                         | '0001'B                  |          |
| <b>Detailed Comments:</b>  |                          |          |

| Structured Type Constraint |               |          |
|----------------------------|---------------|----------|
| <b>Constraint Name:</b>    | CellOpt_05    |          |
| <b>Structured Type:</b>    | CO            |          |
| <b>Derivation Path:</b>    |               |          |
| <b>Comments:</b>           |               |          |
| Element Name               | Element Value | Comments |
| sprb                       | '0'B          |          |
| pwrC                       | '0'B          |          |
| dtX                        | '10'B         |          |
| rt                         | '1111'B       |          |
| <b>Detailed Comments:</b>  |               |          |

| Structured Type Constraint |                          |          |
|----------------------------|--------------------------|----------|
| <b>Constraint Name:</b>    | CellOpt_06               |          |
| <b>Structured Type:</b>    | CO                       |          |
| <b>Derivation Path:</b>    | CellOpt_04.              |          |
| <b>Comments:</b>           | spare bit is set to '1'B |          |
| Element Name               | Element Value            | Comments |
| pwrC                       | '1'B                     |          |
| <b>Detailed Comments:</b>  |                          |          |

| Structured Type Constraint |                                            |          |
|----------------------------|--------------------------------------------|----------|
| <b>Constraint Name:</b>    | CellSelPara(crh, mtmc: INTEGER; neci: B_1) |          |
| <b>Structured Type:</b>    | CSP                                        |          |
| <b>Derivation Path:</b>    |                                            |          |
| <b>Comments:</b>           | Default value.                             |          |
| Element Name               | Element Value                              | Comments |
| crh                        | INT_TO_BIT(crh, 3)                         |          |
| mtmc                       | INT_TO_BIT(mtmc, 5)                        |          |
| acs                        | '0'B                                       |          |
| neci                       | neci                                       |          |
| ram                        | '000000'B                                  |          |
| <b>Detailed Comments:</b>  |                                            |          |

| Structured Type Constraint |                           |          |
|----------------------------|---------------------------|----------|
| <b>Constraint Name:</b>    | CellSelPara_01            |          |
| <b>Structured Type:</b>    | CSP                       |          |
| <b>Derivation Path:</b>    |                           |          |
| <b>Comments:</b>           | Default value for GSM900. |          |
| Element Name               | Element Value             | Comments |
| crh                        | '110'B                    |          |
| mtmc                       | '10011'B                  |          |
| acs                        | '0'B                      |          |
| neci                       | '0'B                      |          |
| ram                        | '000000'B                 |          |
| <b>Detailed Comments:</b>  |                           |          |

| Structured Type Constraint |                            |          |
|----------------------------|----------------------------|----------|
| <b>Constraint Name:</b>    | CellSelPara_04             |          |
| <b>Structured Type:</b>    | CSP                        |          |
| <b>Derivation Path:</b>    | CellSelPara_01.            |          |
| <b>Comments:</b>           | Default value for DCS1800. |          |
| Element Name               | Element Value              | Comments |
| mtmc                       | '01111'B                   |          |
| <b>Detailed Comments:</b>  |                            |          |

| Structured Type Constraint |                                                    |          |
|----------------------------|----------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Cgpn_01                                            |          |
| <b>Structured Type:</b>    | CGPN                                               |          |
| <b>Derivation Path:</b>    |                                                    |          |
| <b>Comments:</b>           | calling party BCD number with arbitrary spare bits |          |
| Element Name               | Element Value                                      | Comments |
| iei                        | '01011100'B                                        |          |
| iel                        | '03'O                                              |          |
| tonnpi                     | TonNpi_01                                          |          |
| pis                        | PiSi_01                                            |          |
| digits                     | '01'O                                              |          |
| <b>Detailed Comments:</b>  |                                                    |          |

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

| Structured Type Constraint |                    |          |
|----------------------------|--------------------|----------|
| <b>Constraint Name:</b>    | Chd_01             |          |
| <b>Structured Type:</b>    | CHD                |          |
| <b>Derivation Path:</b>    |                    |          |
| <b>Comments:</b>           | used as invalid IE |          |
| Element Name               | Element Value      | Comments |
| iei                        | '00000010'B        |          |
| cht_schn                   | '11100'B           |          |
| tn                         | '000'B             |          |
| tsc                        | '100'B             |          |
| hch                        | '1'B               |          |
| maio                       | '0000'B            |          |
| hsn                        | OMIT               |          |
| spr                        | OMIT               |          |
| arfcn                      | OMIT               |          |
| <b>Detailed Comments:</b>  |                    |          |

| Structured Type Constraint |                                                                     |          |
|----------------------------|---------------------------------------------------------------------|----------|
| <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>Comments:</b>           | Channel description for CC testing, non hopping, no starting time.  |          |
| Element Name               | Element Value                                                       | Comments |
| iei                        | OMIT                                                                |          |
| cht_schn                   | type                                                                |          |
| tn                         | slot                                                                |          |
| tsc                        | tsc                                                                 |          |
| hch                        | '0'B                                                                |          |
| maio                       | OMIT                                                                |          |
| hsn                        | OMIT                                                                |          |
| spr                        | '00'B                                                               |          |
| arfcn                      | INT_TO_BIT(par_arfcn, 10)                                           |          |
| <b>Detailed Comments:</b>  |                                                                     |          |



| Structured Type Constraint |                                                                                           |          |
|----------------------------|-------------------------------------------------------------------------------------------|----------|
| <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>Comments:</b>           | A derived constraint for <<Channel description >>ie with TCH/F freq. hopping in any CELL. |          |
| Element Name               | Element Value                                                                             | Comments |
| iei                        | OMIT                                                                                      |          |
| cht_schn                   | par_chtype                                                                                |          |
| tn                         | ts_ccch                                                                                   |          |
| tsc                        | tsc                                                                                       |          |
| hch                        | '1'B                                                                                      |          |
| maio                       | maio                                                                                      |          |
| hsn                        | hsn                                                                                       |          |
| spr                        | OMIT                                                                                      |          |
| arfcn                      | OMIT                                                                                      |          |
| <b>Detailed Comments:</b>  |                                                                                           |          |

| Structured Type Constraint |                                                                                           |          |
|----------------------------|-------------------------------------------------------------------------------------------|----------|
| <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>Comments:</b>           | A derived constraint for <<Channel description >>ie with TCH/F freq. hopping in any CELL. |          |
| Element Name               | Element Value                                                                             | Comments |
| iei                        | '01100100'B                                                                               |          |
| cht_schn                   | par_chtype                                                                                |          |
| tn                         | ts_ccch                                                                                   |          |
| tsc                        | tsc                                                                                       |          |
| hch                        | '1'B                                                                                      |          |
| maio                       | maio                                                                                      |          |
| hsn                        | hsn                                                                                       |          |
| spr                        | OMIT                                                                                      |          |
| arfcn                      | OMIT                                                                                      |          |
| <b>Detailed Comments:</b>  |                                                                                           |          |

| Structured Type Constraint |                                                                        |          |
|----------------------------|------------------------------------------------------------------------|----------|
| <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>Comments:</b>           | Channel description for SDCCH8.                                        |          |
| Element Name               | Element Value                                                          | Comments |
| iei                        | OMIT                                                                   |          |
| cht_schn                   | INT_TO_BIT((8 + BIT_TO_INT(sch)), 5)                                   |          |
| tn                         | slot                                                                   |          |
| tsc                        | tsc                                                                    |          |
| hch                        | '1'B                                                                   |          |
| maio                       | maio                                                                   |          |
| hsn                        | hsn                                                                    |          |
| spr                        | OMIT                                                                   |          |
| arfcn                      | OMIT                                                                   |          |
| <b>Detailed Comments:</b>  |                                                                        |          |

| Structured Type Constraint |                                                                     |          |
|----------------------------|---------------------------------------------------------------------|----------|
| <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>Comments:</b>           | Channel description for SDCCH8 in cell A for RR test.               |          |
| Element Name               | Element Value                                                       | Comments |
| iei                        | OMIT                                                                |          |
| cht_schn                   | INT_TO_BIT((8 + BIT_TO_INT(subch)), 5)                              |          |
| tn                         | slot                                                                |          |
| tsc                        | tsc                                                                 |          |
| hch                        | '0'B                                                                |          |
| maio                       | OMIT                                                                |          |
| hsn                        | OMIT                                                                |          |
| spr                        | '00'B                                                               |          |
| arfcn                      | INT_TO_BIT(arfcn, 10)                                               |          |
| <b>Detailed Comments:</b>  |                                                                     |          |

| Structured Type Constraint                         |                                                            |          |
|----------------------------------------------------|------------------------------------------------------------|----------|
| <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>Comments:</b>                                   | Channel description for TCH/F in cell A for RR test.       |          |
| Element Name                                       | Element Value                                              | Comments |
| iei                                                | OMIT                                                       |          |
| cht_schn                                           | '00001'B                                                   |          |
| tn                                                 | slot                                                       |          |
| tsc                                                | tsc                                                        |          |
| hch                                                | '1'B                                                       |          |
| maio                                               | maio                                                       |          |
| hsn                                                | hsn                                                        |          |
| spr                                                | OMIT                                                       |          |
| arfcn                                              | OMIT                                                       |          |
| <b>Detailed Comments:</b> Used in TC_26_6_4_1 only |                                                            |          |

| Structured Type Constraint                         |                                                                        |          |
|----------------------------------------------------|------------------------------------------------------------------------|----------|
| <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>Comments:</b>                                   | Channel description for TCH/H in cell A for RR test.                   |          |
| Element Name                                       | Element Value                                                          | Comments |
| iei                                                | OMIT                                                                   |          |
| cht_schn                                           | INT_TO_BIT((2 + BIT_TO_INT(subch)), 5)                                 |          |
| tn                                                 | slot                                                                   |          |
| tsc                                                | tsc                                                                    |          |
| hch                                                | '1'B                                                                   |          |
| maio                                               | maio                                                                   |          |
| hsn                                                | hsn                                                                    |          |
| spr                                                | OMIT                                                                   |          |
| arfcn                                              | OMIT                                                                   |          |
| <b>Detailed Comments:</b> Used in TC_26_6_4_1 only |                                                                        |          |

| <b>Structured Type Constraint</b> |                                                                   |          |
|-----------------------------------|-------------------------------------------------------------------|----------|
| <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>Comments:</b>                  | Channel description for TCH/F in cell A for RR test.              |          |
| Element Name                      | Element Value                                                     | Comments |
| iei                               | OMIT                                                              |          |
| cht_schn                          | INT_TO_BIT((2 + BIT_TO_INT(subch)), 5)                            |          |
| tn                                | slot                                                              |          |
| tsc                               | tsc                                                               |          |
| hch                               | '0'B                                                              |          |
| maio                              | OMIT                                                              |          |
| hsn                               | OMIT                                                              |          |
| spr                               | '00'B                                                             |          |
| arfcn                             | INT_TO_BIT(arfcn, 10)                                             |          |
| <b>Detailed Comments:</b>         |                                                                   |          |

| <b>Structured Type Constraint</b> |                  |          |
|-----------------------------------|------------------|----------|
| <b>Constraint Name:</b>           | ChMod(mode: B_8) |          |
| <b>Structured Type:</b>           | CHMOD            |          |
| <b>Derivation Path:</b>           |                  |          |
| <b>Comments:</b>                  |                  |          |
| Element Name                      | Element Value    | Comments |
| iei                               | OMIT             |          |
| mode                              | mode             |          |
| <b>Detailed Comments:</b>         |                  |          |

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

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

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

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

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

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

| Structured Type Constraint |                 |          |
|----------------------------|-----------------|----------|
| <b>Constraint Name:</b>    | ChMod_sign      |          |
| <b>Structured Type:</b>    | CHMOD           |          |
| <b>Derivation Path:</b>    |                 |          |
| <b>Comments:</b>           | signalling only |          |
| Element Name               | Element Value   | Comments |
| iei                        | OMIT            |          |
| mode                       | C_ChMod_s       |          |
| <b>Detailed Comments:</b>  |                 |          |

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

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

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

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

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

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

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

| Structured Type Constraint |                       |          |
|----------------------------|-----------------------|----------|
| <b>Constraint Name:</b>    | ChMod_mand(chmd: B_8) |          |
| <b>Structured Type:</b>    | CHMOD                 |          |
| <b>Derivation Path:</b>    |                       |          |
| <b>Comments:</b>           | parametrized mode.    |          |
| Element Name               | Element Value         | Comments |
| iei                        | OMIT                  |          |
| mode                       | chmd                  |          |
| <b>Detailed Comments:</b>  |                       |          |

| Structured Type Constraint |                    |          |
|----------------------------|--------------------|----------|
| <b>Constraint Name:</b>    | ChMod_omit         |          |
| <b>Structured Type:</b>    | CHMOD              |          |
| <b>Derivation Path:</b>    |                    |          |
| <b>Comments:</b>           | parametrized mode. |          |
| Element Name               | Element Value      | Comments |
| iei                        | OMIT               |          |
| mode                       | OMIT               |          |
| <b>Detailed Comments:</b>  |                    |          |

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

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

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

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

| Structured Type Constraint |               |          |
|----------------------------|---------------|----------|
| <b>Constraint Name:</b>    | CiphRes_01    |          |
| <b>Structured Type:</b>    | CPH_RES       |          |
| <b>Derivation Path:</b>    |               |          |
| <b>Comments:</b>           |               |          |
| Element Name               | Element Value | Comments |
| iei                        | OMIT          |          |
| sprb                       | '000'B        |          |
| cr                         | '0'B          |          |
| <b>Detailed Comments:</b>  |               |          |

| Structured Type Constraint |                  |          |
|----------------------------|------------------|----------|
| <b>Constraint Name:</b>    | ClassMark1       |          |
| <b>Structured Type:</b>    | MSCLM1           |          |
| <b>Derivation Path:</b>    |                  |          |
| <b>Comments:</b>           |                  |          |
| Element Name               | Element Value    | Comments |
| spr1                       | '0'B             |          |
| rl                         | TSPX_RevLevel    |          |
| spr2                       | '0'B             |          |
| a5_1                       | TSPX_CiphAlgA5_1 |          |
| rfpc                       | TSPX_RfPwrCap    |          |
| <b>Detailed Comments:</b>  |                  |          |

| Structured Type Constraint |                  |          |
|----------------------------|------------------|----------|
| <b>Constraint Name:</b>    | ClassMark2       |          |
| <b>Structured Type:</b>    | MSCLM2           |          |
| <b>Derivation Path:</b>    |                  |          |
| <b>Comments:</b>           |                  |          |
| Element Name               | Element Value    | Comments |
| iel                        | '03'O            |          |
| spr1                       | '0'B             |          |
| rl                         | TSPX_RevLevel    |          |
| spr2                       | '0'B             |          |
| a5_1                       | TSPX_CiphAlgA5_1 |          |
| rfpc                       | TSPX_RfPwrCap    |          |
| spr3                       | '0'B             |          |
| psc                        | TSPX_pSyncCap    |          |
| sssi                       | TSPX_SSscrnInd   |          |
| smc                        | TSPX_SMCap       |          |
| spr4                       | '00'B            |          |
| fc                         | TSPX_frqCap      |          |
| cm3                        | TSPX_ClsMk3      |          |
| spr5                       | '00000'B         |          |
| a5_3                       | TSPX_CiphAlgA5_3 |          |
| a5_2                       | TSPX_CiphAlgA5_2 |          |
| <b>Detailed Comments:</b>  |                  |          |

| Structured Type Constraint |                  |          |
|----------------------------|------------------|----------|
| <b>Constraint Name:</b>    | ClassMark2Amp    |          |
| <b>Structured Type:</b>    | MSCLM2           |          |
| <b>Derivation Path:</b>    |                  |          |
| <b>Comments:</b>           |                  |          |
| Element Name               | Element Value    | Comments |
| iel                        | '03'O            |          |
| spr1                       | '0'B             |          |
| rl                         | TSPX_RevLevel    |          |
| spr2                       | '0'B             |          |
| a5_1                       | TSPX_CiphAlgA5_1 |          |
| rfpc                       | TSPX_RfPwrCapAmp |          |
| spr3                       | '0'B             |          |
| psc                        | TSPX_pSyncCap    |          |
| sssi                       | TSPX_SSscrnInd   |          |
| smc                        | TSPX_SMCap       |          |
| spr4                       | '00'B            |          |
| fc                         | TSPX_frqCap      |          |
| cm3                        | TSPX_ClsMk3      |          |
| spr5                       | '00000'B         |          |
| a5_3                       | TSPX_CiphAlgA5_3 |          |
| a5_2                       | TSPX_CiphAlgA5_2 |          |
| <b>Detailed Comments:</b>  |                  |          |



| <b>Structured Type Constraint</b>  |                           |          |
|------------------------------------|---------------------------|----------|
| <b>Constraint Name:</b> ClassMark3 |                           |          |
| <b>Structured Type:</b> MSCLM3     |                           |          |
| <b>Derivation Path:</b>            |                           |          |
| <b>Comments:</b>                   |                           |          |
| Element Name                       | Element Value             | Comments |
| iei                                | '00100000'B               |          |
| iel                                | '0D'O                     |          |
| spr1                               | '0000'B                   |          |
| a5_7                               | TSPX_CiphAlgA5_7          |          |
| a5_6                               | TSPX_CiphAlgA5_6          |          |
| a5_5                               | TSPX_CiphAlgA5_5          |          |
| a5_4                               | TSPX_CiphAlgA5_4          |          |
| spr2                               | '0000000000000000000000'O |          |
| <b>Detailed Comments:</b>          |                           |          |

| <b>Structured Type Constraint</b>  |               |          |
|------------------------------------|---------------|----------|
| <b>Constraint Name:</b> CiphRes_02 |               |          |
| <b>Structured Type:</b> CPH_RES    |               |          |
| <b>Derivation Path:</b>            |               |          |
| <b>Comments:</b>                   |               |          |
| Element Name                       | Element Value | Comments |
| iei                                | OMIT          |          |
| sprb                               | '000'B        |          |
| cr                                 | '1'B          |          |
| <b>Detailed Comments:</b>          |               |          |

| <b>Structured Type Constraint</b>                                                                            |               |          |
|--------------------------------------------------------------------------------------------------------------|---------------|----------|
| <b>Constraint Name:</b> CntrlChDscrp_inv                                                                     |               |          |
| <b>Structured Type:</b> CCD                                                                                  |               |          |
| <b>Derivation Path:</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 | Comments |
| spr1                                                                                                         | '1'B          |          |
| att                                                                                                          | '0'B          |          |
| babr                                                                                                         | '000'B        |          |
| ccch_con                                                                                                     | '001'B        |          |
| spr2                                                                                                         | '01100'B      |          |
| bpm                                                                                                          | '011'B        |          |
| t3212                                                                                                        | '00'O         |          |
| <b>Detailed Comments:</b>                                                                                    |               |          |

| <b>Structured Type Constraint</b>                                                               |                   |          |
|-------------------------------------------------------------------------------------------------|-------------------|----------|
| <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>Comments:</b> Generic Control channel descriptor.                                            |                   |          |
| Element Name                                                                                    | Element Value     | 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 |               |          |
|----------------------------|---------------|----------|
| <b>Constraint Name:</b>    | CphKeySN_01   |          |
| <b>Structured Type:</b>    | CPHKSN        |          |
| <b>Derivation Path:</b>    |               |          |
| <b>Comments:</b>           |               |          |
| Element Name               | Element Value | Comments |
| sprb                       | '0'B          |          |
| ks                         | TSPX_CKSNDf   |          |
| <b>Detailed Comments:</b>  |               |          |

| Structured Type Constraint |                                                                            |          |
|----------------------------|----------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | CphKeySN_02                                                                |          |
| <b>Structured Type:</b>    | CPHKSN                                                                     |          |
| <b>Derivation Path:</b>    |                                                                            |          |
| <b>Comments:</b>           | An invalid ciphering key sequence number containing spare bit set to '1'B. |          |
| Element Name               | Element Value                                                              | Comments |
| sprb                       | '1'B                                                                       |          |
| ks                         | '000'B                                                                     |          |
| <b>Detailed Comments:</b>  |                                                                            |          |

| Structured Type Constraint |                                       |          |
|----------------------------|---------------------------------------|----------|
| <b>Constraint Name:</b>    | CphKeySN_06                           |          |
| <b>Structured Type:</b>    | CPHKSN                                |          |
| <b>Derivation Path:</b>    |                                       |          |
| <b>Comments:</b>           | ciphering key sequence number no key. |          |
| Element Name               | Element Value                         | Comments |
| sprb                       | '0'B                                  |          |
| ks                         | '111'B                                |          |
| <b>Detailed Comments:</b>  |                                       |          |

| Structured Type Constraint |                             |          |
|----------------------------|-----------------------------|----------|
| <b>Constraint Name:</b>    | CphKeySN_07(par: BITSTRING) |          |
| <b>Structured Type:</b>    | CPHKSN                      |          |
| <b>Derivation Path:</b>    |                             |          |
| <b>Comments:</b>           |                             |          |
| Element Name               | Element Value               | Comments |
| sprb                       | '0'B                        |          |
| ks                         | par                         |          |
| <b>Detailed Comments:</b>  |                             |          |

| Structured Type Constraint |               |          |
|----------------------------|---------------|----------|
| <b>Constraint Name:</b>    | CphMod_omit   |          |
| <b>Structured Type:</b>    | CPHMS         |          |
| <b>Derivation Path:</b>    |               |          |
| <b>Comments:</b>           |               |          |
| Element Name               | Element Value | Comments |
| iei                        | OMIT          |          |
| algid                      | OMIT          |          |
| sc                         | OMIT          |          |
| <b>Detailed Comments:</b>  |               |          |

| Structured Type Constraint        |                |          |
|-----------------------------------|----------------|----------|
| <b>Constraint Name:</b> CphMod_01 |                |          |
| <b>Structured Type:</b> CPHMS     |                |          |
| <b>Derivation Path:</b>           |                |          |
| <b>Comments:</b>                  |                |          |
| Element Name                      | Element Value  | Comments |
| iei                               | OMIT           |          |
| algid                             | TSPX_CphAlgDef |          |
| sc                                | '1'B           |          |
| <b>Detailed Comments:</b>         |                |          |

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

| Structured Type Constraint           |                |          |
|--------------------------------------|----------------|----------|
| <b>Constraint Name:</b> CphMod_02iei |                |          |
| <b>Structured Type:</b> CPHMS        |                |          |
| <b>Derivation Path:</b>              |                |          |
| <b>Comments:</b> No ciphering        |                |          |
| Element Name                         | Element Value  | Comments |
| iei                                  | '1001'B        |          |
| algid                                | TSPX_CphAlgDef |          |
| sc                                   | '0'B           |          |
| <b>Detailed Comments:</b>            |                |          |

| Structured Type Constraint        |               |          |
|-----------------------------------|---------------|----------|
| <b>Constraint Name:</b> CphMod_03 |               |          |
| <b>Structured Type:</b> CPHMS     |               |          |
| <b>Derivation Path:</b>           |               |          |
| <b>Comments:</b>                  |               |          |
| Element Name                      | Element Value | Comments |
| iei                               | OMIT          |          |
| algid                             | '000'B        |          |
| sc                                | '1'B          |          |
| <b>Detailed Comments:</b>         |               |          |

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

| Structured Type Constraint |                                                        |          |
|----------------------------|--------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | CphMod_04iei(alg: BITSTRING)                           |          |
| <b>Structured Type:</b>    | CPHMS                                                  |          |
| <b>Derivation Path:</b>    |                                                        |          |
| <b>Comments:</b>           | starting ciphering with the ciphering algorithm 'alg'. |          |
| Element Name               | Element Value                                          | Comments |
| iei                        | '1001'B                                                |          |
| algid                      | alg                                                    |          |
| sc                         | '1'B                                                   |          |
| <b>Detailed Comments:</b>  |                                                        |          |

| Structured Type Constraint |                                |          |
|----------------------------|--------------------------------|----------|
| <b>Constraint Name:</b>    | facilityIErcv(comp: Component) |          |
| <b>Structured Type:</b>    | FIE                            |          |
| <b>Derivation Path:</b>    |                                |          |
| <b>Comments:</b>           |                                |          |
| Element Name               | Element Value                  | Comments |
| iei                        | OMIT                           |          |
| iel                        | ?                              |          |
| components_1               | SUPERSET({ comp})              |          |
| components_t               | OMIT                           |          |
| <b>Detailed Comments:</b>  |                                |          |

| Structured Type Constraint |                                   |          |
|----------------------------|-----------------------------------|----------|
| <b>Constraint Name:</b>    | facilityIErcviei(comp: Component) |          |
| <b>Structured Type:</b>    | FIE                               |          |
| <b>Derivation Path:</b>    |                                   |          |
| <b>Comments:</b>           |                                   |          |
| Element Name               | Element Value                     | Comments |
| iei                        | '00011100'B                       |          |
| iel                        | ?                                 |          |
| components_1               | SUPERSET({ comp})                 |          |
| components_t               | OMIT                              |          |
| <b>Detailed Comments:</b>  |                                   |          |

| Structured Type Constraint |                                 |          |
|----------------------------|---------------------------------|----------|
| <b>Constraint Name:</b>    | facilityIEsnd(comp: Components) |          |
| <b>Structured Type:</b>    | FIE                             |          |
| <b>Derivation Path:</b>    |                                 |          |
| <b>Comments:</b>           |                                 |          |
| Element Name               | Element Value                   | Comments |
| iei                        | OMIT                            |          |
| iel                        | OC_LengthOfComp1(comp)          |          |
| components_1               | comp                            |          |
| components_t               | OMIT                            |          |
| <b>Detailed Comments:</b>  |                                 |          |

| <b>Structured Type Constraint</b>                          |                        |          |
|------------------------------------------------------------|------------------------|----------|
| <b>Constraint Name:</b> facilitylEsndiei(comp: Components) |                        |          |
| <b>Structured Type:</b> FIE                                |                        |          |
| <b>Derivation Path:</b>                                    |                        |          |
| <b>Comments:</b>                                           |                        |          |
| Element Name                                               | Element Value          | Comments |
| iei                                                        | '00011100'B            |          |
| iel                                                        | OC_LengthOfComp1(comp) |          |
| components_1                                               | comp                   |          |
| components_t                                               | OMIT                   |          |
| <b>Detailed Comments:</b>                                  |                        |          |

| <b>Structured Type Constraint</b>                         |                       |          |
|-----------------------------------------------------------|-----------------------|----------|
| <b>Constraint Name:</b> facilitylEtsnd(comp: Component_T) |                       |          |
| <b>Structured Type:</b> FIE                               |                       |          |
| <b>Derivation Path:</b>                                   |                       |          |
| <b>Comments:</b>                                          |                       |          |
| Element Name                                              | Element Value         | Comments |
| iei                                                       | OMIT                  |          |
| iel                                                       | OC_LengthOfComp(comp) |          |
| components_1                                              | OMIT                  |          |
| components_t                                              | comp                  |          |
| <b>Detailed Comments:</b>                                 |                       |          |

| <b>Structured Type Constraint</b>                            |                       |          |
|--------------------------------------------------------------|-----------------------|----------|
| <b>Constraint Name:</b> facilitylEtsndiei(comp: Component_T) |                       |          |
| <b>Structured Type:</b> FIE                                  |                       |          |
| <b>Derivation Path:</b>                                      |                       |          |
| <b>Comments:</b>                                             |                       |          |
| Element Name                                                 | Element Value         | Comments |
| iei                                                          | '00011100'B           |          |
| iel                                                          | OC_LengthOfComp(comp) |          |
| components_1                                                 | OMIT                  |          |
| components_t                                                 | comp                  |          |
| <b>Detailed Comments:</b>                                    |                       |          |

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

| Structured Type Constraint |                          |          |
|----------------------------|--------------------------|----------|
| <b>Constraint Name:</b>    | FreqBCCH(arfcn: INTEGER) |          |
| <b>Structured Type:</b>    | FRQPARA                  |          |
| <b>Derivation Path:</b>    |                          |          |
| <b>Comments:</b>           | Broadcast channel.       |          |
| Element Name               | Element Value            | Comments |
| hch                        | '0'B                     |          |
| maio                       | OMIT                     |          |
| hsn                        | OMIT                     |          |
| spr                        | '00'B                    |          |
| arfcn                      | INT_TO_BIT(arfcn, 10)    |          |
| maclength                  | '00'O                    |          |
| mac_8n                     | OMIT                     |          |
| mac_7n                     | OMIT                     |          |
| mac_6n                     | OMIT                     |          |
| mac_5n                     | OMIT                     |          |
| mac_4n                     | OMIT                     |          |
| mac_3n                     | OMIT                     |          |
| mac_2n                     | OMIT                     |          |
| mac_1n                     | OMIT                     |          |
| flst                       | OMIT                     |          |
| <b>Detailed Comments:</b>  |                          |          |

| Structured Type Constraint |                                                                        |          |
|----------------------------|------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freqchseq_01                                                           |          |
| <b>Structured Type:</b>    | FRQCHS                                                                 |          |
| <b>Derivation Path:</b>    |                                                                        |          |
| <b>Comments:</b>           | Frequency channel sequence with the f_list={40,66,73,74,75,76,108,114} |          |
| Element Name               | Element Value                                                          | Comments |
| iei                        | '01101001'B                                                            |          |
| larfcn                     | '28'O                                                                  |          |
| incs                       | '0B71110026000000'O                                                    |          |
| <b>Detailed Comments:</b>  |                                                                        |          |

| Structured Type Constraint |                                                                                                                             |          |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freqchseq_02                                                                                                                |          |
| <b>Structured Type:</b>    | FRQCHS                                                                                                                      |          |
| <b>Derivation Path:</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}<br>cross reference: Frql_20_B72 |          |
| Element Name               | Element Value                                                                                                               | Comments |
| iei                        | '01101001'B                                                                                                                 |          |
| larfcn                     | '0E'O                                                                                                                       |          |
| incs                       | '4426172017111002'O                                                                                                         |          |
| <b>Detailed Comments:</b>  |                                                                                                                             |          |

| Structured Type Constraint |                                                         |          |
|----------------------------|---------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freqchseq_03                                            |          |
| <b>Structured Type:</b>    | FRQCHS                                                  |          |
| <b>Derivation Path:</b>    |                                                         |          |
| <b>Comments:</b>           | Frequency channel sequence with the List_ARFCN={14,114} |          |
| Element Name               | Element Value                                           | Comments |
| iei                        | '01101001'B                                             |          |
| larfcn                     | '0E'O                                                   |          |
| incs                       | '000000A000000000'O                                     |          |
| <b>Detailed Comments:</b>  |                                                         |          |

| Structured Type Constraint |                                                         |          |
|----------------------------|---------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freqchseq_04                                            |          |
| <b>Structured Type:</b>    | FRQCHS                                                  |          |
| <b>Derivation Path:</b>    |                                                         |          |
| <b>Comments:</b>           | Frequency channel sequence with the List_ARFCN={40,114} |          |
| Element Name               | Element Value                                           | Comments |
| iei                        | '01101001'B                                             |          |
| larfcn                     | '28'O                                                   |          |
| incls                      | '0000E00000000000'O                                     |          |
| <b>Detailed Comments:</b>  |                                                         |          |

| Structured Type Constraint |                                                                  |          |
|----------------------------|------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freqchseq_05                                                     |          |
| <b>Structured Type:</b>    | FRQCHS                                                           |          |
| <b>Derivation Path:</b>    |                                                                  |          |
| <b>Comments:</b>           | Frequency channel sequence with the List_ARFCN={66, 75, 76, 108} |          |
| Element Name               | Element Value                                                    | Comments |
| iei                        | '01101001'B                                                      |          |
| larfcn                     | '42'O                                                            |          |
| incls                      | '9100200000000000'O                                              |          |
| <b>Detailed Comments:</b>  |                                                                  |          |

| Structured Type Constraint |                                                                                                                      |          |
|----------------------------|----------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freqchseq_06                                                                                                         |          |
| <b>Structured Type:</b>    | FRQCHS                                                                                                               |          |
| <b>Derivation Path:</b>    |                                                                                                                      |          |
| <b>Comments:</b>           | Frequency channel sequence with the<br>List_ARFCN={14,18,22,24,30,31,38,53,66,73,74,75,76,108,114}<br>see Frql_20_B5 |          |
| Element Name               | Element Value                                                                                                        | Comments |
| iei                        | '01101001'B                                                                                                          |          |
| larfcn                     | '0E'O                                                                                                                |          |
| incls                      | '442617FD71110026'O                                                                                                  |          |
| <b>Detailed Comments:</b>  |                                                                                                                      |          |

| Structured Type Constraint |                                                                                        |          |
|----------------------------|----------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freqchseq_22                                                                           |          |
| <b>Structured Type:</b>    | FRQCHS                                                                                 |          |
| <b>Derivation Path:</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                                                                          | Comments |
| iei                        | '01101001'B                                                                            |          |
| larfcn                     | '0A'O                                                                                  |          |
| incls                      | '7360037711100260'O                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                                        |          |

| Structured Type Constraint |                                               |          |
|----------------------------|-----------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCH(arfcn: INTEGER)                       |          |
| <b>Structured Type:</b>    | FRQPARA                                       |          |
| <b>Derivation Path:</b>    |                                               |          |
| <b>Comments:</b>           | Default Traffic channel non frequency hopping |          |
| Element Name               | Element Value                                 | Comments |
| hch                        | '0'B                                          |          |
| maio                       | OMIT                                          |          |
| hsn                        | OMIT                                          |          |
| spr                        | '00'B                                         |          |
| arfcn                      | INT_TO_BIT(arfcn, 10)                         |          |
| maclength                  | '00'O                                         |          |
| mac_8n                     | OMIT                                          |          |
| mac_7n                     | OMIT                                          |          |
| mac_6n                     | OMIT                                          |          |
| mac_5n                     | OMIT                                          |          |
| mac_4n                     | OMIT                                          |          |
| mac_3n                     | OMIT                                          |          |
| mac_2n                     | OMIT                                          |          |
| mac_1n                     | OMIT                                          |          |
| flst                       | OMIT                                          |          |
| <b>Detailed Comments:</b>  |                                               |          |

| Structured Type Constraint |                                                     |          |
|----------------------------|-----------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCH_omit                                        |          |
| <b>Structured Type:</b>    | FRQPARA                                             |          |
| <b>Derivation Path:</b>    |                                                     |          |
| <b>Comments:</b>           | Omitted FRQPARA when not needed in parameters list. |          |
| Element Name               | Element Value                                       | Comments |
| hch                        | OMIT                                                |          |
| maio                       | OMIT                                                |          |
| hsn                        | OMIT                                                |          |
| spr                        | OMIT                                                |          |
| arfcn                      | OMIT                                                |          |
| maclength                  | OMIT                                                |          |
| mac_8n                     | OMIT                                                |          |
| mac_7n                     | OMIT                                                |          |
| mac_6n                     | OMIT                                                |          |
| mac_5n                     | OMIT                                                |          |
| mac_4n                     | OMIT                                                |          |
| mac_3n                     | OMIT                                                |          |
| mac_2n                     | OMIT                                                |          |
| mac_1n                     | OMIT                                                |          |
| flst                       | OMIT                                                |          |
| <b>Detailed Comments:</b>  |                                                     |          |



| Structured Type Constraint |                                                              |          |
|----------------------------|--------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCHa1                                                    |          |
| <b>Structured Type:</b>    | FRQPARA                                                      |          |
| <b>Derivation Path:</b>    |                                                              |          |
| <b>Comments:</b>           | Traffic channel for cell A, ARFCN = 124 hopping, for GSM900. |          |
| Element Name               | Element Value                                                | Comments |
| hch                        | '1'B                                                         |          |
| maio                       | '000000'B                                                    |          |
| hsn                        | '111111'B                                                    |          |
| spr                        | OMIT                                                         |          |
| arfcn                      | OMIT                                                         |          |
| maclength                  | '01'O                                                        |          |
| mac_8n                     | '00000001'B                                                  |          |
| mac_7n                     | OMIT                                                         |          |
| mac_6n                     | OMIT                                                         |          |
| mac_5n                     | OMIT                                                         |          |
| mac_4n                     | OMIT                                                         |          |
| mac_3n                     | OMIT                                                         |          |
| mac_2n                     | OMIT                                                         |          |
| mac_1n                     | OMIT                                                         |          |
| flst                       | Frql_04                                                      |          |
| <b>Detailed Comments:</b>  |                                                              |          |

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

| Structured Type Constraint |                                                              |          |
|----------------------------|--------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCHa3                                                    |          |
| <b>Structured Type:</b>    | FRQPARA                                                      |          |
| <b>Derivation Path:</b>    |                                                              |          |
| <b>Comments:</b>           | Traffic channel for cell A, hopping, GSM 900 for TC_26_6_4_1 |          |
| Element Name               | Element Value                                                | Comments |
| hch                        | '1'B                                                         |          |
| maio                       | '000001'B                                                    |          |
| hsn                        | '000001'B                                                    |          |
| spr                        | OMIT                                                         |          |
| arfcn                      | OMIT                                                         |          |
| maclength                  | '02'O                                                        |          |
| mac_8n                     | '00000011'B                                                  |          |
| mac_7n                     | '11111111'B                                                  |          |
| mac_6n                     | OMIT                                                         |          |
| mac_5n                     | OMIT                                                         |          |
| mac_4n                     | OMIT                                                         |          |
| mac_3n                     | OMIT                                                         |          |
| mac_2n                     | OMIT                                                         |          |
| mac_1n                     | OMIT                                                         |          |
| flst                       | Frql_10                                                      |          |
| <b>Detailed Comments:</b>  |                                                              |          |

| Structured Type Constraint |                                                                |          |
|----------------------------|----------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCHa4                                                      |          |
| <b>Structured Type:</b>    | FRQPARA                                                        |          |
| <b>Derivation Path:</b>    |                                                                |          |
| <b>Comments:</b>           | Traffic channel for cell A, hopping, DCS 1 800 for TC_26_6_4_1 |          |
| Element Name               | Element Value                                                  | Comments |
| hch                        | '1'B                                                           |          |
| maio                       | '000000'B                                                      |          |
| hsn                        | '101000'B                                                      |          |
| spr                        | OMIT                                                           |          |
| arfcn                      | OMIT                                                           |          |
| maclength                  | '01'O                                                          |          |
| mac_8n                     | '00000001'B                                                    |          |
| mac_7n                     | OMIT                                                           |          |
| mac_6n                     | OMIT                                                           |          |
| mac_5n                     | OMIT                                                           |          |
| mac_4n                     | OMIT                                                           |          |
| mac_3n                     | OMIT                                                           |          |
| mac_2n                     | OMIT                                                           |          |
| mac_1n                     | OMIT                                                           |          |
| flst                       | Frql_15                                                        |          |
| <b>Detailed Comments:</b>  |                                                                |          |

| Structured Type Constraint |                                                              |          |
|----------------------------|--------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCHa5                                                    |          |
| <b>Structured Type:</b>    | FRQPARA                                                      |          |
| <b>Derivation Path:</b>    |                                                              |          |
| <b>Comments:</b>           | Traffic channel for cell A, hopping, GSM 900 for TC_26_6_4_1 |          |
| Element Name               | Element Value                                                | Comments |
| hch                        | '1'B                                                         |          |
| maio                       | '000101'B                                                    |          |
| hsn                        | '000000'B                                                    |          |
| spr                        | OMIT                                                         |          |
| arfcn                      | OMIT                                                         |          |
| maclength                  | '01'O                                                        |          |
| mac_8n                     | '00111111'B                                                  |          |
| mac_7n                     | OMIT                                                         |          |
| mac_6n                     | OMIT                                                         |          |
| mac_5n                     | OMIT                                                         |          |
| mac_4n                     | OMIT                                                         |          |
| mac_3n                     | OMIT                                                         |          |
| mac_2n                     | OMIT                                                         |          |
| mac_1n                     | OMIT                                                         |          |
| flst                       | Frql_09                                                      |          |
| <b>Detailed Comments:</b>  |                                                              |          |

| Structured Type Constraint |                                                              |          |
|----------------------------|--------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCHa6                                                    |          |
| <b>Structured Type:</b>    | FRQPARA                                                      |          |
| <b>Derivation Path:</b>    |                                                              |          |
| <b>Comments:</b>           | Traffic channel for cell A, hopping, GSM 900 for TC_26_6_4_1 |          |
| Element Name               | Element Value                                                | Comments |
| hch                        | '1'B                                                         |          |
| maio                       | '000011'B                                                    |          |
| hsn                        | '001000'B                                                    |          |
| spr                        | OMIT                                                         |          |
| arfcn                      | OMIT                                                         |          |
| maclength                  | '02'O                                                        |          |
| mac_8n                     | '00000001'B                                                  |          |
| mac_7n                     | '11000111'B                                                  |          |
| mac_6n                     | OMIT                                                         |          |
| mac_5n                     | OMIT                                                         |          |
| mac_4n                     | OMIT                                                         |          |
| mac_3n                     | OMIT                                                         |          |
| mac_2n                     | OMIT                                                         |          |
| mac_1n                     | OMIT                                                         |          |
| flst                       | Frql_14                                                      |          |
| <b>Detailed Comments:</b>  |                                                              |          |

| Structured Type Constraint |                                                              |          |
|----------------------------|--------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCHa7                                                    |          |
| <b>Structured Type:</b>    | FRQPARA                                                      |          |
| <b>Derivation Path:</b>    |                                                              |          |
| <b>Comments:</b>           | Traffic channel for cell A, hopping, GSM 900 for TC_26_6_4_1 |          |
| Element Name               | Element Value                                                | Comments |
| hch                        | '1'B                                                         |          |
| maio                       | '000011'B                                                    |          |
| hsn                        | '001000'B                                                    |          |
| spr                        | OMIT                                                         |          |
| arfcn                      | OMIT                                                         |          |
| maclength                  | '02'O                                                        |          |
| mac_8n                     | '00000111'B                                                  |          |
| mac_7n                     | '11100011'B                                                  |          |
| mac_6n                     | OMIT                                                         |          |
| mac_5n                     | OMIT                                                         |          |
| mac_4n                     | OMIT                                                         |          |
| mac_3n                     | OMIT                                                         |          |
| mac_2n                     | OMIT                                                         |          |
| mac_1n                     | OMIT                                                         |          |
| flst                       | Frql_11                                                      |          |
| <b>Detailed Comments:</b>  |                                                              |          |

| Structured Type Constraint |                                                                |          |
|----------------------------|----------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCHa8                                                      |          |
| <b>Structured Type:</b>    | FRQPARA                                                        |          |
| <b>Derivation Path:</b>    |                                                                |          |
| <b>Comments:</b>           | Traffic channel for cell A, hopping, DCS 1 800 for TC_26_6_4_1 |          |
| Element Name               | Element Value                                                  | Comments |
| hch                        | '1'B                                                           |          |
| maio                       | '000001'B                                                      |          |
| hsn                        | '000001'B                                                      |          |
| spr                        | OMIT                                                           |          |
| arfcn                      | OMIT                                                           |          |
| maclength                  | '02'O                                                          |          |
| mac_8n                     | '00000011'B                                                    |          |
| mac_7n                     | '11111111'B                                                    |          |
| mac_6n                     | OMIT                                                           |          |
| mac_5n                     | OMIT                                                           |          |
| mac_4n                     | OMIT                                                           |          |
| mac_3n                     | OMIT                                                           |          |
| mac_2n                     | OMIT                                                           |          |
| mac_1n                     | OMIT                                                           |          |
| flst                       | Frql_13                                                        |          |
| <b>Detailed Comments:</b>  |                                                                |          |

| Structured Type Constraint |                                                              |          |
|----------------------------|--------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCHa9                                                    |          |
| <b>Structured Type:</b>    | FRQPARA                                                      |          |
| <b>Derivation Path:</b>    |                                                              |          |
| <b>Comments:</b>           | Traffic channel for cell A, hopping, GSM 900 for TC_26_6_4_1 |          |
| Element Name               | Element Value                                                | Comments |
| hch                        | '1'B                                                         |          |
| maio                       | '000101'B                                                    |          |
| hsn                        | '000000'B                                                    |          |
| spr                        | OMIT                                                         |          |
| arfcn                      | OMIT                                                         |          |
| maclength                  | '01'O                                                        |          |
| mac_8n                     | '00111111'B                                                  |          |
| mac_7n                     | OMIT                                                         |          |
| mac_6n                     | OMIT                                                         |          |
| mac_5n                     | OMIT                                                         |          |
| mac_4n                     | OMIT                                                         |          |
| mac_3n                     | OMIT                                                         |          |
| mac_2n                     | OMIT                                                         |          |
| mac_1n                     | OMIT                                                         |          |
| flst                       | Frql_08                                                      |          |
| <b>Detailed Comments:</b>  |                                                              |          |

| Structured Type Constraint |                                                              |          |
|----------------------------|--------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCHa10                                                   |          |
| <b>Structured Type:</b>    | FRQPARA                                                      |          |
| <b>Derivation Path:</b>    |                                                              |          |
| <b>Comments:</b>           | Traffic channel for cell A, hopping, GSM 900 for TC_26_6_4_1 |          |
| Element Name               | Element Value                                                | Comments |
| hch                        | '1'B                                                         |          |
| maio                       | '000000'B                                                    |          |
| hsn                        | '101000'B                                                    |          |
| spr                        | OMIT                                                         |          |
| arfcn                      | OMIT                                                         |          |
| maclength                  | '01'O                                                        |          |
| mac_8n                     | '00000001'B                                                  |          |
| mac_7n                     | OMIT                                                         |          |
| mac_6n                     | OMIT                                                         |          |
| mac_5n                     | OMIT                                                         |          |
| mac_4n                     | OMIT                                                         |          |
| mac_3n                     | OMIT                                                         |          |
| mac_2n                     | OMIT                                                         |          |
| mac_1n                     | OMIT                                                         |          |
| flst                       | Frql_12                                                      |          |
| <b>Detailed Comments:</b>  |                                                              |          |

| Structured Type Constraint |                                                             |          |
|----------------------------|-------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCHa_21g                                                |          |
| <b>Structured Type:</b>    | FRQPARA                                                     |          |
| <b>Derivation Path:</b>    |                                                             |          |
| <b>Comments:</b>           | GSM 900 traffic channel of cell A, hopping for TC_26_5_6_3. |          |
| Element Name               | Element Value                                               | Comments |
| hch                        | '1'B                                                        |          |
| maio                       | '000000'B                                                   |          |
| hsn                        | '000000'B                                                   |          |
| spr                        | OMIT                                                        |          |
| arfcn                      | OMIT                                                        |          |
| maclength                  | '01'O                                                       |          |
| mac_8n                     | '00000010'B                                                 |          |
| mac_7n                     | OMIT                                                        |          |
| mac_6n                     | OMIT                                                        |          |
| mac_5n                     | OMIT                                                        |          |
| mac_4n                     | OMIT                                                        |          |
| mac_3n                     | OMIT                                                        |          |
| mac_2n                     | OMIT                                                        |          |
| mac_1n                     | OMIT                                                        |          |
| flst                       | Frql_38                                                     |          |
| <b>Detailed Comments:</b>  |                                                             |          |

| Structured Type Constraint |                                                              |          |
|----------------------------|--------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCHa_21d                                                 |          |
| <b>Structured Type:</b>    | FRQPARA                                                      |          |
| <b>Derivation Path:</b>    |                                                              |          |
| <b>Comments:</b>           | DCS 1800 traffic channel of cell A, hopping for TC_26_5_6_3. |          |
| Element Name               | Element Value                                                | Comments |
| hch                        | '1'B                                                         |          |
| maio                       | '000000'B                                                    |          |
| hsn                        | '000000'B                                                    |          |
| spr                        | OMIT                                                         |          |
| arfcn                      | OMIT                                                         |          |
| maclength                  | '01'O                                                        |          |
| mac_8n                     | '00000010'B                                                  |          |
| mac_7n                     | OMIT                                                         |          |
| mac_6n                     | OMIT                                                         |          |
| mac_5n                     | OMIT                                                         |          |
| mac_4n                     | OMIT                                                         |          |
| mac_3n                     | OMIT                                                         |          |
| mac_2n                     | OMIT                                                         |          |
| mac_1n                     | OMIT                                                         |          |
| flst                       | Frql_38d                                                     |          |
| <b>Detailed Comments:</b>  |                                                              |          |

| Structured Type Constraint |                                                                                               |          |
|----------------------------|-----------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCH_ef1(par_ma: BITSTRING; par_freqlist: OCTETSTRING; par_flist: OCTETSTRING; n: INTEGER) |          |
| <b>Structured Type:</b>    | FRQPARA                                                                                       |          |
| <b>Derivation Path:</b>    |                                                                                               |          |
| <b>Comments:</b>           | Broadcast channel of cell A for EGSM.                                                         |          |
| Element Name               | Element Value                                                                                 | Comments |
| hch                        | '1'B                                                                                          |          |
| maio                       | INT_TO_BIT((TSPX_MAIO MOD n), 6)                                                              |          |
| hsn                        | INT_TO_BIT(TSPX_HSN, 6)                                                                       |          |
| spr                        | OMIT                                                                                          |          |
| arfcn                      | OMIT                                                                                          |          |
| maclength                  | '01'O                                                                                         |          |
| mac_8n                     | OMIT                                                                                          |          |
| mac_7n                     | OMIT                                                                                          |          |
| mac_6n                     | OMIT                                                                                          |          |
| mac_5n                     | OMIT                                                                                          |          |
| mac_4n                     | OMIT                                                                                          |          |
| mac_3n                     | OMIT                                                                                          |          |
| mac_2n                     | OMIT                                                                                          |          |
| mac_1n                     | par_ma                                                                                        |          |
| flst                       | Frql_20_egsm(par_freqlist, par_flist)                                                         |          |
| <b>Detailed Comments:</b>  |                                                                                               |          |

| Structured Type Constraint |                                                                                                                   |          |
|----------------------------|-------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCH_ef2(par_ma1: BITSTRING;par_ma2: BITSTRING; par_freqlist: OCTETSTRING; par_flist: OCTETSTRING; n: INTEGER) |          |
| <b>Structured Type:</b>    | FRQPARA                                                                                                           |          |
| <b>Derivation Path:</b>    |                                                                                                                   |          |
| <b>Comments:</b>           | Broadcast channel of cell A for EGSM.                                                                             |          |
| Element Name               | Element Value                                                                                                     | Comments |
| hch                        | '1'B                                                                                                              |          |
| maio                       | INT_TO_BIT((TSPX_MAIO MOD n), 6)                                                                                  |          |
| hsn                        | INT_TO_BIT(TSPX_HSN, 6)                                                                                           |          |
| spr                        | OMIT                                                                                                              |          |
| arfcn                      | OMIT                                                                                                              |          |
| maclength                  | '02'O                                                                                                             |          |
| mac_8n                     | OMIT                                                                                                              |          |
| mac_7n                     | OMIT                                                                                                              |          |
| mac_6n                     | OMIT                                                                                                              |          |
| mac_5n                     | OMIT                                                                                                              |          |
| mac_4n                     | OMIT                                                                                                              |          |
| mac_3n                     | OMIT                                                                                                              |          |
| mac_2n                     | par_ma2                                                                                                           |          |
| mac_1n                     | par_ma1                                                                                                           |          |
| flst                       | Frql_20_egsm(par_freqlist, par_flist)                                                                             |          |
| <b>Detailed Comments:</b>  |                                                                                                                   |          |

| Structured Type Constraint |                                              |          |
|----------------------------|----------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCHa_hof1                                |          |
| <b>Structured Type:</b>    | FRQPARA                                      |          |
| <b>Derivation Path:</b>    |                                              |          |
| <b>Comments:</b>           | a hopping traffic channel of cell A for GSM. |          |
| Element Name               | Element Value                                | Comments |
| hch                        | '1'B                                         |          |
| maio                       | INT_TO_BIT((TSPX_MAIO MOD 12), 6)            |          |
| hsn                        | INT_TO_BIT(TSPX_HSN, 6)                      |          |
| spr                        | OMIT                                         |          |
| arfcn                      | OMIT                                         |          |
| maclength                  | '02'O                                        |          |
| mac_8n                     | '00001111'B                                  |          |
| mac_7n                     | '11111111'B                                  |          |
| mac_6n                     | OMIT                                         |          |
| mac_5n                     | OMIT                                         |          |
| mac_4n                     | OMIT                                         |          |
| mac_3n                     | OMIT                                         |          |
| mac_2n                     | OMIT                                         |          |
| mac_1n                     | OMIT                                         |          |
| flst                       | Frql_20_A                                    |          |
| <b>Detailed Comments:</b>  |                                              |          |

| Structured Type Constraint |                                           |          |
|----------------------------|-------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCHa_hof1d                            |          |
| <b>Structured Type:</b>    | FRQPARA                                   |          |
| <b>Derivation Path:</b>    |                                           |          |
| <b>Comments:</b>           | a hopping channel of cell A for DCS 1 800 |          |
| Element Name               | Element Value                             | Comments |
| hch                        | '1'B                                      |          |
| maio                       | INT_TO_BIT((TSPX_MAIO MOD 9), 6)          |          |
| hsn                        | INT_TO_BIT(TSPX_HSN, 6)                   |          |
| spr                        | OMIT                                      |          |
| arfcn                      | OMIT                                      |          |
| maclength                  | '02'O                                     |          |
| mac_8n                     | '00000001'B                               |          |
| mac_7n                     | '11111111'B                               |          |
| mac_6n                     | OMIT                                      |          |
| mac_5n                     | OMIT                                      |          |
| mac_4n                     | OMIT                                      |          |
| mac_3n                     | OMIT                                      |          |
| mac_2n                     | OMIT                                      |          |
| mac_1n                     | OMIT                                      |          |
| flst                       | Frql_20_Ad                                |          |
| <b>Detailed Comments:</b>  |                                           |          |

| Structured Type Constraint |                                                                              |          |
|----------------------------|------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCHa_hof2                                                                |          |
| <b>Structured Type:</b>    | FRQPARA                                                                      |          |
| <b>Derivation Path:</b>    |                                                                              |          |
| <b>Comments:</b>           | a hopping full rate channel of cell A, but only one frequency (114) for GSM. |          |
| Element Name               | Element Value                                                                | Comments |
| hch                        | '1'B                                                                         |          |
| maio                       | '000000'B                                                                    |          |
| hsn                        | '000000'B                                                                    |          |
| spr                        | OMIT                                                                         |          |
| arfcn                      | OMIT                                                                         |          |
| maclength                  | '03'O                                                                        |          |
| mac_8n                     | '00000001'B                                                                  |          |
| mac_7n                     | '00000000'B                                                                  |          |
| mac_6n                     | '00000000'B                                                                  |          |
| mac_5n                     | OMIT                                                                         |          |
| mac_4n                     | OMIT                                                                         |          |
| mac_3n                     | OMIT                                                                         |          |
| mac_2n                     | OMIT                                                                         |          |
| mac_1n                     | OMIT                                                                         |          |
| flst                       | Frql_20_A0                                                                   |          |
| <b>Detailed Comments:</b>  |                                                                              |          |



| Structured Type Constraint |                                                                             |          |
|----------------------------|-----------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCHa_hof2d                                                              |          |
| <b>Structured Type:</b>    | FRQPARA                                                                     |          |
| <b>Derivation Path:</b>    |                                                                             |          |
| <b>Comments:</b>           | a hopping full rate channel of cell A but only one frequency (844) for DCS. |          |
| Element Name               | Element Value                                                               | Comments |
| hch                        | '1'B                                                                        |          |
| maio                       | '000000'B                                                                   |          |
| hsn                        | '000000'B                                                                   |          |
| spr                        | OMIT                                                                        |          |
| arfcn                      | OMIT                                                                        |          |
| maclength                  | '03'O                                                                       |          |
| mac_8n                     | '00000001'B                                                                 |          |
| mac_7n                     | '00000000'B                                                                 |          |
| mac_6n                     | '00000000'B                                                                 |          |
| mac_5n                     | OMIT                                                                        |          |
| mac_4n                     | OMIT                                                                        |          |
| mac_3n                     | OMIT                                                                        |          |
| mac_2n                     | OMIT                                                                        |          |
| mac_1n                     | OMIT                                                                        |          |
| flst                       | Frql_20_A0d                                                                 |          |
| <b>Detailed Comments:</b>  |                                                                             |          |

| Structured Type Constraint |                                                                                                                 |          |
|----------------------------|-----------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCHa_hof3                                                                                                   |          |
| <b>Structured Type:</b>    | FRQPARA                                                                                                         |          |
| <b>Derivation Path:</b>    |                                                                                                                 |          |
| <b>Comments:</b>           | a hopping channel of cell A with hopping frequencies:<br>{10,17,20,26,34,42,45,46,52,59,66,73,74,75,76,108,114} |          |
| Element Name               | Element Value                                                                                                   | Comments |
| hch                        | '1'B                                                                                                            |          |
| maio                       | INT_TO_BIT((TSPX_MAIO MOD 17), 6)                                                                               |          |
| hsn                        | INT_TO_BIT(TSPX_HSN, 6)                                                                                         |          |
| spr                        | OMIT                                                                                                            |          |
| arfcn                      | OMIT                                                                                                            |          |
| maclength                  | '03'O                                                                                                           |          |
| mac_8n                     | '00000001'B                                                                                                     |          |
| mac_7n                     | '11111111'B                                                                                                     |          |
| mac_6n                     | '11111111'B                                                                                                     |          |
| mac_5n                     | OMIT                                                                                                            |          |
| mac_4n                     | OMIT                                                                                                            |          |
| mac_3n                     | OMIT                                                                                                            |          |
| mac_2n                     | OMIT                                                                                                            |          |
| mac_1n                     | OMIT                                                                                                            |          |
| flst                       | Frql_20_A0                                                                                                      |          |
| <b>Detailed Comments:</b>  |                                                                                                                 |          |

| Structured Type Constraint |                                                                                  |          |
|----------------------------|----------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCHa_hof3d                                                                   |          |
| <b>Structured Type:</b>    | FRQPARA                                                                          |          |
| <b>Derivation Path:</b>    |                                                                                  |          |
| <b>Comments:</b>           | a hopping channel of cell A. Indicating complete Cell Allocation of Cell A (DCS) |          |
| Element Name               | Element Value                                                                    | Comments |
| hch                        | '1'B                                                                             |          |
| maio                       | INT_TO_BIT((TSPX_MAIO MOD 17), 6)                                                |          |
| hsn                        | INT_TO_BIT(TSPX_HSN, 6)                                                          |          |
| spr                        | OMIT                                                                             |          |
| arfcn                      | OMIT                                                                             |          |
| maclength                  | '03'O                                                                            |          |
| mac_8n                     | '00000001'B                                                                      |          |
| mac_7n                     | '11111111'B                                                                      |          |
| mac_6n                     | '11111111'B                                                                      |          |
| mac_5n                     | OMIT                                                                             |          |
| mac_4n                     | OMIT                                                                             |          |
| mac_3n                     | OMIT                                                                             |          |
| mac_2n                     | OMIT                                                                             |          |
| mac_1n                     | OMIT                                                                             |          |
| flst                       | Frql_20_A0d                                                                      |          |
| <b>Detailed Comments:</b>  |                                                                                  |          |

| Structured Type Constraint |                                                                                                                          |          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCHa_hof4                                                                                                            |          |
| <b>Structured Type:</b>    | FRQPARA                                                                                                                  |          |
| <b>Derivation Path:</b>    | FreqTCHa_hof3.                                                                                                           |          |
| <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                                                                                                            | Comments |
| hch                        | '1'B                                                                                                                     |          |
| maio                       | INT_TO_BIT((TSPX_MAIO MOD 16), 6)                                                                                        |          |
| hsn                        | C_HSN_0                                                                                                                  |          |
| mac_6n                     | '11111011'B                                                                                                              |          |
| <b>Detailed Comments:</b>  |                                                                                                                          |          |

| Structured Type Constraint |                                                                                                                                                       |          |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCHa_hof4d                                                                                                                                        |          |
| <b>Structured Type:</b>    | FRQPARA                                                                                                                                               |          |
| <b>Derivation Path:</b>    | FreqTCHa_hof3d.                                                                                                                                       |          |
| <b>Comments:</b>           | a hopping channel of cell A. Indicating complete Cell Allocation of Cell A (DCS)<br>{734,741,754,759,762,766,767,773,775,779,782,791,798,829,832,844} |          |
| Element Name               | Element Value                                                                                                                                         | Comments |
| maio                       | INT_TO_BIT((TSPX_MAIO MOD 17), 6)                                                                                                                     |          |
| hsn                        | C_HSN_0                                                                                                                                               |          |
| mac_6n                     | '11111111'B                                                                                                                                           |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                       |          |

| Structured Type Constraint |                                   |          |
|----------------------------|-----------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCHb_hof1                     |          |
| <b>Structured Type:</b>    | FRQPARA                           |          |
| <b>Derivation Path:</b>    |                                   |          |
| <b>Comments:</b>           | Broadcast channel of cell B.      |          |
| Element Name               | Element Value                     | Comments |
| hch                        | '1'B                              |          |
| maio                       | INT_TO_BIT((TSPX_MAIO MOD 12), 6) |          |
| hsn                        | INT_TO_BIT(TSPX_HSN, 6)           |          |
| spr                        | OMIT                              |          |
| arfcn                      | OMIT                              |          |
| maclength                  | '02'O                             |          |
| mac_8n                     | '00001111'B                       |          |
| mac_7n                     | '11111111'B                       |          |
| mac_6n                     | OMIT                              |          |
| mac_5n                     | OMIT                              |          |
| mac_4n                     | OMIT                              |          |
| mac_3n                     | OMIT                              |          |
| mac_2n                     | OMIT                              |          |
| mac_1n                     | OMIT                              |          |
| flst                       | Frql_20_B3                        |          |
| <b>Detailed Comments:</b>  |                                   |          |

| Structured Type Constraint |                                                 |          |
|----------------------------|-------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCHb_hof1d                                  |          |
| <b>Structured Type:</b>    | FRQPARA                                         |          |
| <b>Derivation Path:</b>    |                                                 |          |
| <b>Comments:</b>           | Broadcast channel of cell B for hopping DCS1800 |          |
| Element Name               | Element Value                                   | Comments |
| hch                        | '1'B                                            |          |
| maio                       | INT_TO_BIT((TSPX_MAIO MOD 12), 6)               |          |
| hsn                        | INT_TO_BIT(TSPX_HSN, 6)                         |          |
| spr                        | OMIT                                            |          |
| arfcn                      | OMIT                                            |          |
| maclength                  | '02'O                                           |          |
| mac_8n                     | '00001111'B                                     |          |
| mac_7n                     | '11111111'B                                     |          |
| mac_6n                     | OMIT                                            |          |
| mac_5n                     | OMIT                                            |          |
| mac_4n                     | OMIT                                            |          |
| mac_3n                     | OMIT                                            |          |
| mac_2n                     | OMIT                                            |          |
| mac_1n                     | OMIT                                            |          |
| flst                       | Frql_20_B3d                                     |          |
| <b>Detailed Comments:</b>  |                                                 |          |

| Structured Type Constraint |                                  |          |
|----------------------------|----------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCHb_hof2                    |          |
| <b>Structured Type:</b>    | FRQPARA                          |          |
| <b>Derivation Path:</b>    |                                  |          |
| <b>Comments:</b>           | a hopping traffic channel        |          |
| Element Name               | Element Value                    | Comments |
| hch                        | '1'B                             |          |
| maio                       | INT_TO_BIT((TSPX_MAIO MOD 8), 6) |          |
| hsn                        | INT_TO_BIT(TSPX_HSN, 6)          |          |
| spr                        | OMIT                             |          |
| arfcn                      | OMIT                             |          |
| maclength                  | '01'O                            |          |
| mac_8n                     | '11111111'B                      |          |
| mac_7n                     | OMIT                             |          |
| mac_6n                     | OMIT                             |          |
| mac_5n                     | OMIT                             |          |
| mac_4n                     | OMIT                             |          |
| mac_3n                     | OMIT                             |          |
| mac_2n                     | OMIT                             |          |
| mac_1n                     | OMIT                             |          |
| flst                       | Frql_20_B4                       |          |
| <b>Detailed Comments:</b>  |                                  |          |

| Structured Type Constraint |                                                 |          |
|----------------------------|-------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCHb_hof2d                                  |          |
| <b>Structured Type:</b>    | FRQPARA                                         |          |
| <b>Derivation Path:</b>    |                                                 |          |
| <b>Comments:</b>           | Broadcast channel of cell B for hopping DCS1800 |          |
| Element Name               | Element Value                                   | Comments |
| hch                        | '1'B                                            |          |
| maio                       | INT_TO_BIT((TSPX_MAIO MOD 8), 6)                |          |
| hsn                        | INT_TO_BIT(TSPX_HSN, 6)                         |          |
| spr                        | OMIT                                            |          |
| arfcn                      | OMIT                                            |          |
| maclength                  | '01'O                                           |          |
| mac_8n                     | '11111111'B                                     |          |
| mac_7n                     | OMIT                                            |          |
| mac_6n                     | OMIT                                            |          |
| mac_5n                     | OMIT                                            |          |
| mac_4n                     | OMIT                                            |          |
| mac_3n                     | OMIT                                            |          |
| mac_2n                     | OMIT                                            |          |
| mac_1n                     | OMIT                                            |          |
| flst                       | Frql_20_B4d                                     |          |
| <b>Detailed Comments:</b>  |                                                 |          |

| Structured Type Constraint            |                                   |          |
|---------------------------------------|-----------------------------------|----------|
| <b>Constraint Name:</b> FreqTCHb_hof3 |                                   |          |
| <b>Structured Type:</b> FRQPARA       |                                   |          |
| <b>Derivation Path:</b>               |                                   |          |
| <b>Comments:</b>                      |                                   |          |
| Element Name                          | Element Value                     | Comments |
| hch                                   | '1'B                              |          |
| maio                                  | INT_TO_BIT((TSPX_MAIO MOD 11), 6) |          |
| hsn                                   | INT_TO_BIT(TSPX_HSN, 6)           |          |
| spr                                   | OMIT                              |          |
| arfcn                                 | OMIT                              |          |
| maclength                             | '02'O                             |          |
| mac_8n                                | '01111111'B                       |          |
| mac_7n                                | '11111111'B                       |          |
| mac_6n                                | OMIT                              |          |
| mac_5n                                | OMIT                              |          |
| mac_4n                                | OMIT                              |          |
| mac_3n                                | OMIT                              |          |
| mac_2n                                | OMIT                              |          |
| mac_1n                                | OMIT                              |          |
| flst                                  | Frql_20_B5                        |          |
| <b>Detailed Comments:</b>             |                                   |          |

| Structured Type Constraint             |                                   |          |
|----------------------------------------|-----------------------------------|----------|
| <b>Constraint Name:</b> FreqTCHb_hof3d |                                   |          |
| <b>Structured Type:</b> FRQPARA        |                                   |          |
| <b>Derivation Path:</b>                |                                   |          |
| <b>Comments:</b>                       |                                   |          |
| Element Name                           | Element Value                     | Comments |
| hch                                    | '1'B                              |          |
| maio                                   | INT_TO_BIT((TSPX_MAIO MOD 15), 6) |          |
| hsn                                    | INT_TO_BIT(TSPX_HSN, 6)           |          |
| spr                                    | OMIT                              |          |
| arfcn                                  | OMIT                              |          |
| maclength                              | '02'O                             |          |
| mac_8n                                 | '00000111'B                       |          |
| mac_7n                                 | '11111111'B                       |          |
| mac_6n                                 | OMIT                              |          |
| mac_5n                                 | OMIT                              |          |
| mac_4n                                 | OMIT                              |          |
| mac_3n                                 | OMIT                              |          |
| mac_2n                                 | OMIT                              |          |
| mac_1n                                 | OMIT                              |          |
| flst                                   | Frql_20_B5d                       |          |
| <b>Detailed Comments:</b>              |                                   |          |

| Structured Type Constraint |                                  |          |
|----------------------------|----------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCHb_hof4                    |          |
| <b>Structured Type:</b>    | FRQPARA                          |          |
| <b>Derivation Path:</b>    |                                  |          |
| <b>Comments:</b>           |                                  |          |
| Element Name               | Element Value                    | Comments |
| hch                        | '1'B                             |          |
| maio                       | INT_TO_BIT((TSPX_MAIO MOD 3), 6) |          |
| hsn                        | INT_TO_BIT(TSPX_HSN, 6)          |          |
| spr                        | OMIT                             |          |
| arfcn                      | OMIT                             |          |
| maclength                  | '01'O                            |          |
| mac_8n                     | '00011100'B                      |          |
| mac_7n                     | OMIT                             |          |
| mac_6n                     | OMIT                             |          |
| mac_5n                     | OMIT                             |          |
| mac_4n                     | OMIT                             |          |
| mac_3n                     | OMIT                             |          |
| mac_2n                     | OMIT                             |          |
| mac_1n                     | OMIT                             |          |
| flst                       | Frql_20_B4                       |          |
| <b>Detailed Comments:</b>  |                                  |          |

| Structured Type Constraint |                                  |          |
|----------------------------|----------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCHb_hof4d                   |          |
| <b>Structured Type:</b>    | FRQPARA                          |          |
| <b>Derivation Path:</b>    |                                  |          |
| <b>Comments:</b>           | TC_26_6_5_2_2                    |          |
| Element Name               | Element Value                    | Comments |
| hch                        | '1'B                             |          |
| maio                       | INT_TO_BIT((TSPX_MAIO MOD 3), 6) |          |
| hsn                        | INT_TO_BIT(TSPX_HSN, 6)          |          |
| spr                        | OMIT                             |          |
| arfcn                      | OMIT                             |          |
| maclength                  | '02'O                            |          |
| mac_8n                     | '00000000'B                      |          |
| mac_7n                     | '11100000'B                      |          |
| mac_6n                     | OMIT                             |          |
| mac_5n                     | OMIT                             |          |
| mac_4n                     | OMIT                             |          |
| mac_3n                     | OMIT                             |          |
| mac_2n                     | OMIT                             |          |
| mac_1n                     | OMIT                             |          |
| flst                       | Frql_20_B6d                      |          |
| <b>Detailed Comments:</b>  |                                  |          |

| Structured Type Constraint                                   |                                  |          |
|--------------------------------------------------------------|----------------------------------|----------|
| <b>Constraint Name:</b> FreqTCHb_hof5                        |                                  |          |
| <b>Structured Type:</b> FRQPARA                              |                                  |          |
| <b>Derivation Path:</b>                                      |                                  |          |
| <b>Comments:</b> full rate hopping channel of cell B for GSM |                                  |          |
| Element Name                                                 | Element Value                    | Comments |
| hch                                                          | '1'B                             |          |
| maio                                                         | INT_TO_BIT((TSPX_MAIO MOD 5), 6) |          |
| hsn                                                          | INT_TO_BIT(TSPX_HSN, 6)          |          |
| spr                                                          | OMIT                             |          |
| arfcn                                                        | OMIT                             |          |
| maclength                                                    | '01'O                            |          |
| mac_8n                                                       | '10100111'B                      |          |
| mac_7n                                                       | OMIT                             |          |
| mac_6n                                                       | OMIT                             |          |
| mac_5n                                                       | OMIT                             |          |
| mac_4n                                                       | OMIT                             |          |
| mac_3n                                                       | OMIT                             |          |
| mac_2n                                                       | OMIT                             |          |
| mac_1n                                                       | OMIT                             |          |
| flst                                                         | Frql_20_B0                       |          |
| <b>Detailed Comments:</b>                                    |                                  |          |

| Structured Type Constraint                                     |                                  |          |
|----------------------------------------------------------------|----------------------------------|----------|
| <b>Constraint Name:</b> FreqTCHb_hof5d                         |                                  |          |
| <b>Structured Type:</b> FRQPARA                                |                                  |          |
| <b>Derivation Path:</b>                                        |                                  |          |
| <b>Comments:</b> a full rate hopping channel of cell B for DCS |                                  |          |
| Element Name                                                   | Element Value                    | Comments |
| hch                                                            | '1'B                             |          |
| maio                                                           | INT_TO_BIT((TSPX_MAIO MOD 9), 6) |          |
| hsn                                                            | INT_TO_BIT(TSPX_HSN, 6)          |          |
| spr                                                            | OMIT                             |          |
| arfcn                                                          | OMIT                             |          |
| maclength                                                      | '02'O                            |          |
| mac_8n                                                         | '00000001'B                      |          |
| mac_7n                                                         | '11111111'B                      |          |
| mac_6n                                                         | OMIT                             |          |
| mac_5n                                                         | OMIT                             |          |
| mac_4n                                                         | OMIT                             |          |
| mac_3n                                                         | OMIT                             |          |
| mac_2n                                                         | OMIT                             |          |
| mac_1n                                                         | OMIT                             |          |
| flst                                                           | Frql_20_B9d                      |          |
| <b>Detailed Comments:</b>                                      |                                  |          |

| Structured Type Constraint            |                                  |          |
|---------------------------------------|----------------------------------|----------|
| <b>Constraint Name:</b> FreqTCHb_hof6 |                                  |          |
| <b>Structured Type:</b> FRQPARA       |                                  |          |
| <b>Derivation Path:</b>               |                                  |          |
| <b>Comments:</b>                      |                                  |          |
| Element Name                          | Element Value                    | Comments |
| hch                                   | '1'B                             |          |
| maio                                  | INT_TO_BIT((TSPX_MAIO MOD 2), 6) |          |
| hsn                                   | INT_TO_BIT(TSPX_HSN, 6)          |          |
| spr                                   | OMIT                             |          |
| arfcn                                 | OMIT                             |          |
| maclength                             | '02'O                            |          |
| mac_8n                                | '10000000'B                      |          |
| mac_7n                                | '00000001'B                      |          |
| mac_6n                                | OMIT                             |          |
| mac_5n                                | OMIT                             |          |
| mac_4n                                | OMIT                             |          |
| mac_3n                                | OMIT                             |          |
| mac_2n                                | OMIT                             |          |
| mac_1n                                | OMIT                             |          |
| flst                                  | Frql_20_B0                       |          |
| <b>Detailed Comments:</b>             |                                  |          |

| Structured Type Constraint             |                                  |          |
|----------------------------------------|----------------------------------|----------|
| <b>Constraint Name:</b> FreqTCHb_hof6d |                                  |          |
| <b>Structured Type:</b> FRQPARA        |                                  |          |
| <b>Derivation Path:</b>                |                                  |          |
| <b>Comments:</b>                       |                                  |          |
| Element Name                           | Element Value                    | Comments |
| hch                                    | '1'B                             |          |
| maio                                   | INT_TO_BIT((TSPX_MAIO MOD 3), 6) |          |
| hsn                                    | '000000'B                        |          |
| spr                                    | OMIT                             |          |
| arfcn                                  | OMIT                             |          |
| maclength                              | '02'O                            |          |
| mac_8n                                 | '00000110'B                      |          |
| mac_7n                                 | '10000000'B                      |          |
| mac_6n                                 | OMIT                             |          |
| mac_5n                                 | OMIT                             |          |
| mac_4n                                 | OMIT                             |          |
| mac_3n                                 | OMIT                             |          |
| mac_2n                                 | OMIT                             |          |
| mac_1n                                 | OMIT                             |          |
| flst                                   | Frql_20_B8d                      |          |
| <b>Detailed Comments:</b>              |                                  |          |



| Structured Type Constraint |                                  |          |
|----------------------------|----------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCHb_hof7                    |          |
| <b>Structured Type:</b>    | FRQPARA                          |          |
| <b>Derivation Path:</b>    |                                  |          |
| <b>Comments:</b>           | channel of cell B.               |          |
| Element Name               | Element Value                    | Comments |
| hch                        | '1'B                             |          |
| maio                       | INT_TO_BIT((TSPX_MAIO MOD 2), 6) |          |
| hsn                        | INT_TO_BIT(TSPX_HSN, 6)          |          |
| spr                        | OMIT                             |          |
| arfcn                      | OMIT                             |          |
| maclength                  | '02'O                            |          |
| mac_8n                     | '10000000'B                      |          |
| mac_7n                     | '10000000'B                      |          |
| mac_6n                     | OMIT                             |          |
| mac_5n                     | OMIT                             |          |
| mac_4n                     | OMIT                             |          |
| mac_3n                     | OMIT                             |          |
| mac_2n                     | OMIT                             |          |
| mac_1n                     | OMIT                             |          |
| flst                       | Frql_20_B0                       |          |
| <b>Detailed Comments:</b>  |                                  |          |

| Structured Type Constraint |                                   |          |
|----------------------------|-----------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCHb_hof7d                    |          |
| <b>Structured Type:</b>    | FRQPARA                           |          |
| <b>Derivation Path:</b>    |                                   |          |
| <b>Comments:</b>           |                                   |          |
| Element Name               | Element Value                     | Comments |
| hch                        | '1'B                              |          |
| maio                       | INT_TO_BIT((TSPX_MAIO MOD 15), 6) |          |
| hsn                        | C_HSN_0                           |          |
| spr                        | OMIT                              |          |
| arfcn                      | OMIT                              |          |
| maclength                  | '02'O                             |          |
| mac_8n                     | '01111111'B                       |          |
| mac_7n                     | '11111111'B                       |          |
| mac_6n                     | OMIT                              |          |
| mac_5n                     | OMIT                              |          |
| mac_4n                     | OMIT                              |          |
| mac_3n                     | OMIT                              |          |
| mac_2n                     | OMIT                              |          |
| mac_1n                     | OMIT                              |          |
| flst                       | Frql_20_11d                       |          |
| <b>Detailed Comments:</b>  |                                   |          |

| Structured Type Constraint |                                                                    |          |
|----------------------------|--------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCHb_hof8                                                      |          |
| <b>Structured Type:</b>    | FRQPARA                                                            |          |
| <b>Derivation Path:</b>    |                                                                    |          |
| <b>Comments:</b>           | traffic channel of cell B. Hopping on List_ARFCN={66, 75, 76, 108} |          |
| Element Name               | Element Value                                                      | Comments |
| hch                        | '1'B                                                               |          |
| maio                       | INT_TO_BIT((TSPX_MAIO MOD 4), 6)                                   |          |
| hsn                        | INT_TO_BIT(TSPX_HSN, 6)                                            |          |
| spr                        | OMIT                                                               |          |
| arfcn                      | OMIT                                                               |          |
| maclength                  | '02'O                                                              |          |
| mac_8n                     | '01110010'B                                                        |          |
| mac_7n                     | '00000000'B                                                        |          |
| mac_6n                     | OMIT                                                               |          |
| mac_5n                     | OMIT                                                               |          |
| mac_4n                     | OMIT                                                               |          |
| mac_3n                     | OMIT                                                               |          |
| mac_2n                     | OMIT                                                               |          |
| mac_1n                     | OMIT                                                               |          |
| flst                       | Frql_20_B0                                                         |          |
| <b>Detailed Comments:</b>  |                                                                    |          |

| Structured Type Constraint |                                                     |          |
|----------------------------|-----------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCHb_hof8d                                      |          |
| <b>Structured Type:</b>    | FRQPARA                                             |          |
| <b>Derivation Path:</b>    |                                                     |          |
| <b>Comments:</b>           | traffic channel of cell B. List_ARFCN={758,761,771} |          |
| Element Name               | Element Value                                       | Comments |
| hch                        | '1'B                                                |          |
| maio                       | INT_TO_BIT((TSPX_MAIO MOD 3), 6)                    |          |
| hsn                        | INT_TO_BIT(TSPX_HSN, 6)                             |          |
| spr                        | OMIT                                                |          |
| arfcn                      | OMIT                                                |          |
| maclength                  | '01'O                                               |          |
| mac_8n                     | '00000111'B                                         |          |
| mac_7n                     | OMIT                                                |          |
| mac_6n                     | OMIT                                                |          |
| mac_5n                     | OMIT                                                |          |
| mac_4n                     | OMIT                                                |          |
| mac_3n                     | OMIT                                                |          |
| mac_2n                     | OMIT                                                |          |
| mac_1n                     | OMIT                                                |          |
| flst                       | Frql_20_B12d                                        |          |
| <b>Detailed Comments:</b>  |                                                     |          |

| Structured Type Constraint |                                             |          |
|----------------------------|---------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCHb_hof9                               |          |
| <b>Structured Type:</b>    | FRQPARA                                     |          |
| <b>Derivation Path:</b>    |                                             |          |
| <b>Comments:</b>           | full rate hopping channel of cell B for GSM |          |
| Element Name               | Element Value                               | Comments |
| hch                        | '1'B                                        |          |
| maio                       | INT_TO_BIT((TSPX_MAIO MOD 16), 6)           |          |
| hsn                        | INT_TO_BIT(TSPX_HSN, 6)                     |          |
| spr                        | OMIT                                        |          |
| arfcn                      | OMIT                                        |          |
| maclength                  | '02'O                                       |          |
| mac_8n                     | '11111111'B                                 |          |
| mac_7n                     | '11111111'B                                 |          |
| mac_6n                     | OMIT                                        |          |
| mac_5n                     | OMIT                                        |          |
| mac_4n                     | OMIT                                        |          |
| mac_3n                     | OMIT                                        |          |
| mac_2n                     | OMIT                                        |          |
| mac_1n                     | OMIT                                        |          |
| flst                       | Frql_20_B2                                  |          |
| <b>Detailed Comments:</b>  |                                             |          |

| Structured Type Constraint |                                               |          |
|----------------------------|-----------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqTCHb_hof9d                                |          |
| <b>Structured Type:</b>    | FRQPARA                                       |          |
| <b>Derivation Path:</b>    |                                               |          |
| <b>Comments:</b>           | a full rate hopping channel of cell B for DCS |          |
| Element Name               | Element Value                                 | Comments |
| hch                        | '1'B                                          |          |
| maio                       | INT_TO_BIT((TSPX_MAIO MOD 13), 6)             |          |
| hsn                        | INT_TO_BIT(TSPX_HSN, 6)                       |          |
| spr                        | OMIT                                          |          |
| arfcn                      | OMIT                                          |          |
| maclength                  | '02'O                                         |          |
| mac_8n                     | '00111111'B                                   |          |
| mac_7n                     | '10111111'B                                   |          |
| mac_6n                     | OMIT                                          |          |
| mac_5n                     | OMIT                                          |          |
| mac_4n                     | OMIT                                          |          |
| mac_3n                     | OMIT                                          |          |
| mac_2n                     | OMIT                                          |          |
| mac_1n                     | OMIT                                          |          |
| flst                       | Frql_20_B0d                                   |          |
| <b>Detailed Comments:</b>  |                                               |          |

| Structured Type Constraint |                                               |          |
|----------------------------|-----------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqSDCCHa_hof1                               |          |
| <b>Structured Type:</b>    | FRQPARA                                       |          |
| <b>Derivation Path:</b>    |                                               |          |
| <b>Comments:</b>           | hopping with {73,74,75} of cell allocation A. |          |
| Element Name               | Element Value                                 | Comments |
| hch                        | '1'B                                          |          |
| maio                       | INT_TO_BIT((TSPX_MAIO MOD 3), 6)              |          |
| hsn                        | INT_TO_BIT(TSPX_HSN, 6)                       |          |
| spr                        | OMIT                                          |          |
| arfcn                      | OMIT                                          |          |
| maclength                  | '03'O                                         |          |
| mac_8n                     | '00000000'B                                   |          |
| mac_7n                     | '00111000'B                                   |          |
| mac_6n                     | '00000000'B                                   |          |
| mac_5n                     | OMIT                                          |          |
| mac_4n                     | OMIT                                          |          |
| mac_3n                     | OMIT                                          |          |
| mac_2n                     | OMIT                                          |          |
| mac_1n                     | OMIT                                          |          |
| flst                       | Frql_20_A0                                    |          |
| <b>Detailed Comments:</b>  |                                               |          |

| Structured Type Constraint |                                                                      |          |
|----------------------------|----------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqSDCCHa_hof1d                                                     |          |
| <b>Structured Type:</b>    | FRQPARA                                                              |          |
| <b>Derivation Path:</b>    |                                                                      |          |
| <b>Comments:</b>           | a hopping channel of cell A with {773,775,779} of cell allocation A. |          |
| Element Name               | Element Value                                                        | Comments |
| hch                        | '1'B                                                                 |          |
| maio                       | INT_TO_BIT((TSPX_MAIO MOD 3), 6)                                     |          |
| hsn                        | INT_TO_BIT(TSPX_HSN, 6)                                              |          |
| spr                        | OMIT                                                                 |          |
| arfcn                      | OMIT                                                                 |          |
| maclength                  | '03'O                                                                |          |
| mac_8n                     | '00000000'B                                                          |          |
| mac_7n                     | '00000111'B                                                          |          |
| mac_6n                     | '00000000'B                                                          |          |
| mac_5n                     | OMIT                                                                 |          |
| mac_4n                     | OMIT                                                                 |          |
| mac_3n                     | OMIT                                                                 |          |
| mac_2n                     | OMIT                                                                 |          |
| mac_1n                     | OMIT                                                                 |          |
| flst                       | Frql_20_A0d                                                          |          |
| <b>Detailed Comments:</b>  |                                                                      |          |

| Structured Type Constraint |                                                                                                                |          |
|----------------------------|----------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqSDCCHa_hof2                                                                                                |          |
| <b>Structured Type:</b>    | FRQPARA                                                                                                        |          |
| <b>Derivation Path:</b>    |                                                                                                                |          |
| <b>Comments:</b>           | a hopping channel with hopping frequencies are the Complete Cell Allocation of cell A except for BCCH. For GSM |          |
| Element Name               | Element Value                                                                                                  | Comments |
| hch                        | '1'B                                                                                                           |          |
| maio                       | INT_TO_BIT((TSPX_MAIO MOD 16), 6)                                                                              |          |
| hsn                        | INT_TO_BIT(TSPX_HSN, 6)                                                                                        |          |
| spr                        | OMIT                                                                                                           |          |
| arfcn                      | OMIT                                                                                                           |          |
| maclength                  | '03'O                                                                                                          |          |
| mac_8n                     | '00000001'B                                                                                                    |          |
| mac_7n                     | '11111111'B                                                                                                    |          |
| mac_6n                     | '11111011'B                                                                                                    |          |
| mac_5n                     | OMIT                                                                                                           |          |
| mac_4n                     | OMIT                                                                                                           |          |
| mac_3n                     | OMIT                                                                                                           |          |
| mac_2n                     | OMIT                                                                                                           |          |
| mac_1n                     | OMIT                                                                                                           |          |
| flst                       | FrqL_20_A0                                                                                                     |          |
| <b>Detailed Comments:</b>  |                                                                                                                |          |

| Structured Type Constraint |                                                                                                                           |          |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqSDCCHa_hof2d                                                                                                          |          |
| <b>Structured Type:</b>    | FRQPARA                                                                                                                   |          |
| <b>Derivation Path:</b>    |                                                                                                                           |          |
| <b>Comments:</b>           | 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                                                                                                             | Comments |
| hch                        | '1'B                                                                                                                      |          |
| maio                       | INT_TO_BIT((TSPX_MAIO MOD 16), 6)                                                                                         |          |
| hsn                        | INT_TO_BIT(TSPX_HSN, 6)                                                                                                   |          |
| spr                        | OMIT                                                                                                                      |          |
| arfcn                      | OMIT                                                                                                                      |          |
| maclength                  | '03'O                                                                                                                     |          |
| mac_8n                     | '00000001'B                                                                                                               |          |
| mac_7n                     | '11111111'B                                                                                                               |          |
| mac_6n                     | '11111011'B                                                                                                               |          |
| mac_5n                     | OMIT                                                                                                                      |          |
| mac_4n                     | OMIT                                                                                                                      |          |
| mac_3n                     | OMIT                                                                                                                      |          |
| mac_2n                     | OMIT                                                                                                                      |          |
| mac_1n                     | OMIT                                                                                                                      |          |
| flst                       | FrqL_20_A0d                                                                                                               |          |
| <b>Detailed Comments:</b>  |                                                                                                                           |          |

| Structured Type Constraint |                                                                                     |          |
|----------------------------|-------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqSDCCHa_hof3                                                                     |          |
| <b>Structured Type:</b>    | FRQPARA                                                                             |          |
| <b>Derivation Path:</b>    |                                                                                     |          |
| <b>Comments:</b>           | hopping channel with the Complete Cell Allocation of cell A except 20 and 52.(GSNM) |          |
| Element Name               | Element Value                                                                       | Comments |
| hch                        | '1'B                                                                                |          |
| maio                       | INT_TO_BIT((TSPX_MAIO MOD 15), 6)                                                   |          |
| hsn                        | '000000'B                                                                           |          |
| spr                        | OMIT                                                                                |          |
| arfcn                      | OMIT                                                                                |          |
| maclength                  | '03'O                                                                               |          |
| mac_8n                     | '00000001'B                                                                         |          |
| mac_7n                     | '11111110'B                                                                         |          |
| mac_6n                     | '11111011'B                                                                         |          |
| mac_5n                     | OMIT                                                                                |          |
| mac_4n                     | OMIT                                                                                |          |
| mac_3n                     | OMIT                                                                                |          |
| mac_2n                     | OMIT                                                                                |          |
| mac_1n                     | OMIT                                                                                |          |
| flst                       | Frql_20_A0                                                                          |          |
| <b>Detailed Comments:</b>  |                                                                                     |          |

| Structured Type Constraint |                                                                                                         |          |
|----------------------------|---------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqSDCCHa_hof3d                                                                                        |          |
| <b>Structured Type:</b>    | FRQPARA                                                                                                 |          |
| <b>Derivation Path:</b>    |                                                                                                         |          |
| <b>Comments:</b>           | hopping channel of cell A with the Complete Cell Allocation of cell A with except 747 and 767.<br>(DCS) |          |
| Element Name               | Element Value                                                                                           | Comments |
| hch                        | '1'B                                                                                                    |          |
| maio                       | INT_TO_BIT((TSPX_MAIO MOD 15), 6)                                                                       |          |
| hsn                        | '000000'B                                                                                               |          |
| spr                        | OMIT                                                                                                    |          |
| arfcn                      | OMIT                                                                                                    |          |
| maclength                  | '03'O                                                                                                   |          |
| mac_8n                     | '00000001'B                                                                                             |          |
| mac_7n                     | '11111111'B                                                                                             |          |
| mac_6n                     | '01111011'B                                                                                             |          |
| mac_5n                     | OMIT                                                                                                    |          |
| mac_4n                     | OMIT                                                                                                    |          |
| mac_3n                     | OMIT                                                                                                    |          |
| mac_2n                     | OMIT                                                                                                    |          |
| mac_1n                     | OMIT                                                                                                    |          |
| flst                       | Frql_20_A0d                                                                                             |          |
| <b>Detailed Comments:</b>  |                                                                                                         |          |

| Structured Type Constraint |                                   |          |
|----------------------------|-----------------------------------|----------|
| <b>Constraint Name:</b>    | FreqSDCCH8b_hof1                  |          |
| <b>Structured Type:</b>    | FRQPARA                           |          |
| <b>Derivation Path:</b>    |                                   |          |
| <b>Comments:</b>           | hopping SDCCH8 channel            |          |
| Element Name               | Element Value                     | Comments |
| hch                        | '1'B                              |          |
| maio                       | INT_TO_BIT((TSPX_MAIO MOD 15), 6) |          |
| hsn                        | INT_TO_BIT(TSPX_HSN, 6)           |          |
| spr                        | OMIT                              |          |
| arfcn                      | OMIT                              |          |
| maclength                  | '02'O                             |          |
| mac_8n                     | '01111111'B                       |          |
| mac_7n                     | '11111111'B                       |          |
| mac_6n                     | OMIT                              |          |
| mac_5n                     | OMIT                              |          |
| mac_4n                     | OMIT                              |          |
| mac_3n                     | OMIT                              |          |
| mac_2n                     | OMIT                              |          |
| mac_1n                     | OMIT                              |          |
| flst                       | Frql_20_B7                        |          |
| <b>Detailed Comments:</b>  |                                   |          |

| Structured Type Constraint |                                  |          |
|----------------------------|----------------------------------|----------|
| <b>Constraint Name:</b>    | FreqSDCCH8b_hof1d                |          |
| <b>Structured Type:</b>    | FRQPARA                          |          |
| <b>Derivation Path:</b>    |                                  |          |
| <b>Comments:</b>           | hopping SDCCH8 channel           |          |
| Element Name               | Element Value                    | Comments |
| hch                        | '1'B                             |          |
| maio                       | INT_TO_BIT((TSPX_MAIO MOD 2), 6) |          |
| hsn                        | '000000'B                        |          |
| spr                        | OMIT                             |          |
| arfcn                      | OMIT                             |          |
| maclength                  | '01'O                            |          |
| mac_8n                     | '00000011'B                      |          |
| mac_7n                     | OMIT                             |          |
| mac_6n                     | OMIT                             |          |
| mac_5n                     | OMIT                             |          |
| mac_4n                     | OMIT                             |          |
| mac_3n                     | OMIT                             |          |
| mac_2n                     | OMIT                             |          |
| mac_1n                     | OMIT                             |          |
| flst                       | Frql_20_B7d                      |          |
| <b>Detailed Comments:</b>  |                                  |          |

| Structured Type Constraint |                                   |          |
|----------------------------|-----------------------------------|----------|
| <b>Constraint Name:</b>    | FreqSDCCH8b_hof2                  |          |
| <b>Structured Type:</b>    | FRQPARA                           |          |
| <b>Derivation Path:</b>    |                                   |          |
| <b>Comments:</b>           | hopping SDCCH8 channel            |          |
| Element Name               | Element Value                     | Comments |
| hch                        | '1'B                              |          |
| maio                       | INT_TO_BIT((TSPX_MAIO MOD 14), 6) |          |
| hsn                        | INT_TO_BIT(TSPX_HSN, 6)           |          |
| spr                        | OMIT                              |          |
| arfcn                      | OMIT                              |          |
| maclength                  | '02'O                             |          |
| mac_8n                     | '00111111'B                       |          |
| mac_7n                     | '11111111'B                       |          |
| mac_6n                     | OMIT                              |          |
| mac_5n                     | OMIT                              |          |
| mac_4n                     | OMIT                              |          |
| mac_3n                     | OMIT                              |          |
| mac_2n                     | OMIT                              |          |
| mac_1n                     | OMIT                              |          |
| flst                       | Frql_20_B72                       |          |
| <b>Detailed Comments:</b>  |                                   |          |

| Structured Type Constraint |                                                                                                               |          |
|----------------------------|---------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqSDCCH8b_hof2d                                                                                             |          |
| <b>Structured Type:</b>    | FRQPARA                                                                                                       |          |
| <b>Derivation Path:</b>    |                                                                                                               |          |
| <b>Comments:</b>           | hopping SDCCH8 channel in cell B, hopping frequencies are the complete cell allocation of cell B (512 format) |          |
| Element Name               | Element Value                                                                                                 | Comments |
| hch                        | '1'B                                                                                                          |          |
| maio                       | INT_TO_BIT((TSPX_MAIO MOD 16), 6)                                                                             |          |
| hsn                        | C_HSN_0                                                                                                       |          |
| spr                        | OMIT                                                                                                          |          |
| arfcn                      | OMIT                                                                                                          |          |
| maclength                  | '02'O                                                                                                         |          |
| mac_8n                     | '11111111'B                                                                                                   |          |
| mac_7n                     | '11111111'B                                                                                                   |          |
| mac_6n                     | OMIT                                                                                                          |          |
| mac_5n                     | OMIT                                                                                                          |          |
| mac_4n                     | OMIT                                                                                                          |          |
| mac_3n                     | OMIT                                                                                                          |          |
| mac_2n                     | OMIT                                                                                                          |          |
| mac_1n                     | OMIT                                                                                                          |          |
| flst                       | Frql_20_B0d                                                                                                   |          |
| <b>Detailed Comments:</b>  |                                                                                                               |          |

| Structured Type Constraint |                                                                      |          |
|----------------------------|----------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqSDCCH8b_hof3                                                     |          |
| <b>Structured Type:</b>    | FRQPARA                                                              |          |
| <b>Derivation Path:</b>    | FreqSDCCH8b_hof2d.                                                   |          |
| <b>Comments:</b>           | hopping SDCCH8 channel including complete cell allocation of cell B. |          |
| Element Name               | Element Value                                                        | Comments |
| maclength                  | '02'O                                                                |          |
| mac_8n                     | '11111111'B                                                          |          |
| mac_7n                     | '11111111'B                                                          |          |
| flst                       | Frql_20_BO                                                           |          |
| <b>Detailed Comments:</b>  |                                                                      |          |



| Structured Type Constraint |                                                        |          |
|----------------------------|--------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqSDCCH8_rg1                                         |          |
| <b>Structured Type:</b>    | FRQPARA                                                |          |
| <b>Derivation Path:</b>    |                                                        |          |
| <b>Comments:</b>           | hopping SDCCH8 channel of TC_26_6_13_1 for GSM .       |          |
| Element Name               | Element Value                                          | Comments |
| hch                        | '1'B                                                   |          |
| maio                       | INT_TO_BIT(TSPX_Maio1, 6)                              |          |
| hsn                        | INT_TO_BIT(TSPX_Hsn1, 6)                               |          |
| spr                        | OMIT                                                   |          |
| arfcn                      | OMIT                                                   |          |
| 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                     | OMIT                                                   |          |
| mac_4n                     | OMIT                                                   |          |
| mac_3n                     | OMIT                                                   |          |
| mac_2n                     | OMIT                                                   |          |
| mac_1n                     | OMIT                                                   |          |
| flst                       | Frql_20_A0                                             |          |
| <b>Detailed Comments:</b>  |                                                        |          |

| Structured Type Constraint |                                                        |          |
|----------------------------|--------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqSDCCH8_rg2                                         |          |
| <b>Structured Type:</b>    | FRQPARA                                                |          |
| <b>Derivation Path:</b>    | FreqSDCCH8_rg1.                                        |          |
| <b>Comments:</b>           | hopping SDCCH8 channel of TC_26_6_13_2 for GSM .       |          |
| Element Name               | Element Value                                          | 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 |                                                  |          |
|----------------------------|--------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqSDCCH8_rd1                                   |          |
| <b>Structured Type:</b>    | FRQPARA                                          |          |
| <b>Derivation Path:</b>    | FreqSDCCH8_rg1.                                  |          |
| <b>Comments:</b>           | hopping SDCCH8 channel of TC_26_6_13_1 for DCS . |          |
| Element Name               | Element Value                                    | Comments |
| flst                       | Frql_20_A1d                                      |          |
| <b>Detailed Comments:</b>  |                                                  |          |

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

| Structured Type Constraint |                                                   |          |
|----------------------------|---------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqSDCCH8_e                                      |          |
| <b>Structured Type:</b>    | FRQPARA                                           |          |
| <b>Derivation Path:</b>    |                                                   |          |
| <b>Comments:</b>           | hopping SDCCH8 channel of TC_26_6_10_3 for EGSM . |          |
| Element Name               | Element Value                                     | Comments |
| hch                        | '1'B                                              |          |
| maio                       | OMIT                                              |          |
| hsn                        | OMIT                                              |          |
| spr                        | '00'B                                             |          |
| arfcn                      | INT_TO_BIT(40, 10)                                |          |
| maclength                  | '00'O                                             |          |
| mac_8n                     | OMIT                                              |          |
| mac_7n                     | OMIT                                              |          |
| mac_6n                     | OMIT                                              |          |
| mac_5n                     | OMIT                                              |          |
| mac_4n                     | OMIT                                              |          |
| mac_3n                     | OMIT                                              |          |
| mac_2n                     | OMIT                                              |          |
| mac_1n                     | OMIT                                              |          |
| flst                       | OMIT                                              |          |
| <b>Detailed Comments:</b>  |                                                   |          |

| Structured Type Constraint |                                             |          |
|----------------------------|---------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqSDCCH8_e1                               |          |
| <b>Structured Type:</b>    | FRQPARA                                     |          |
| <b>Derivation Path:</b>    |                                             |          |
| <b>Comments:</b>           | SDCCH8 channel of TC_26_6_10_2_2 for EGSM . |          |
| Element Name               | Element Value                               | Comments |
| hch                        | '0'B                                        |          |
| maio                       | OMIT                                        |          |
| hsn                        | OMIT                                        |          |
| spr                        | '00'B                                       |          |
| arfcn                      | INT_TO_BIT(1015, 10)                        |          |
| maclength                  | '00'O                                       |          |
| mac_8n                     | OMIT                                        |          |
| mac_7n                     | OMIT                                        |          |
| mac_6n                     | OMIT                                        |          |
| mac_5n                     | OMIT                                        |          |
| mac_4n                     | OMIT                                        |          |
| mac_3n                     | OMIT                                        |          |
| mac_2n                     | OMIT                                        |          |
| mac_1n                     | OMIT                                        |          |
| flst                       | OMIT                                        |          |
| <b>Detailed Comments:</b>  |                                             |          |

| Structured Type Constraint |                                                                                       |          |
|----------------------------|---------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FreqSDCCH8_e2                                                                         |          |
| <b>Structured Type:</b>    | FRQPARA                                                                               |          |
| <b>Derivation Path:</b>    |                                                                                       |          |
| <b>Comments:</b>           | hopping with<br>indicates to the ARFCN_list={0, 80, 1005, 1010} of cell allocation A. |          |
| Element Name               | Element Value                                                                         | Comments |
| hch                        | '1'B                                                                                  |          |
| maio                       | INT_TO_BIT((TSPX_MaIO MOD 4), 6)                                                      |          |
| hsn                        | INT_TO_BIT(TSPX_HSN, 6)                                                               |          |
| spr                        | OMIT                                                                                  |          |
| arfcn                      | OMIT                                                                                  |          |
| maclength                  | '01'O                                                                                 |          |
| mac_8n                     | '01110001'B                                                                           |          |
| mac_7n                     | OMIT                                                                                  |          |
| mac_6n                     | OMIT                                                                                  |          |
| mac_5n                     | OMIT                                                                                  |          |
| mac_4n                     | OMIT                                                                                  |          |
| mac_3n                     | OMIT                                                                                  |          |
| mac_2n                     | OMIT                                                                                  |          |
| mac_1n                     | OMIT                                                                                  |          |
| flst                       | Frql_20_A0E                                                                           |          |
| <b>Detailed Comments:</b>  |                                                                                       |          |

| Structured Type Constraint |                                                        |          |
|----------------------------|--------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freq_rg2                                               |          |
| <b>Structured Type:</b>    | FRQPARA                                                |          |
| <b>Derivation Path:</b>    | FreqSDCCH8_rg1.                                        |          |
| <b>Comments:</b>           | hopping channel of TC_26_6_13_1 for GSM , before time. |          |
| Element Name               | Element Value                                          | Comments |
| maio                       | INT_TO_BIT(TSPX_Maio3, 6)                              |          |
| hsn                        | INT_TO_BIT(TSPX_Hsn3, 6)                               |          |
| 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)         |          |
| <b>Detailed Comments:</b>  |                                                        |          |

| Structured Type Constraint |                                                       |          |
|----------------------------|-------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freq_rd2                                              |          |
| <b>Structured Type:</b>    | FRQPARA                                               |          |
| <b>Derivation Path:</b>    | FreqSDCCH8_rg1.Freq_rg2.                              |          |
| <b>Comments:</b>           | hopping channel of TC_26_6_13_1 for DCS, before time. |          |
| Element Name               | Element Value                                         | Comments |
| flst                       | Frql_20_A1d                                           |          |
| <b>Detailed Comments:</b>  |                                                       |          |

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

| Structured Type Constraint |                                                                |          |
|----------------------------|----------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freq_rg5                                                       |          |
| <b>Structured Type:</b>    | FRQPARA                                                        |          |
| <b>Derivation Path:</b>    |                                                                |          |
| <b>Comments:</b>           | hopping channel of TC_26_6_13_3 for GSM, immediate assignment. |          |
| Element Name               | Element Value                                                  | Comments |
| hch                        | '1'B                                                           |          |
| maio                       | INT_TO_BIT(TSPX_Maio6, 6)                                      |          |
| hsn                        | INT_TO_BIT(TSPX_Hsn6, 6)                                       |          |
| spr                        | OMIT                                                           |          |
| arfcn                      | OMIT                                                           |          |
| 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                     | OMIT                                                           |          |
| mac_4n                     | OMIT                                                           |          |
| mac_3n                     | OMIT                                                           |          |
| mac_2n                     | OMIT                                                           |          |
| mac_1n                     | OMIT                                                           |          |
| flst                       | Frql_20_A0                                                     |          |
| <b>Detailed Comments:</b>  |                                                                |          |

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

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

| Structured Type Constraint |                                                     |          |
|----------------------------|-----------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freq_rg8                                            |          |
| <b>Structured Type:</b>    | FRQPARA                                             |          |
| <b>Derivation Path:</b>    | FreqSDCCH8_rg1.                                     |          |
| <b>Comments:</b>           | hopping channel of TC_26_4_2_2 for GSM, assignment. |          |
| Element Name               | Element Value                                       | Comments |
| maio                       | '000000'B                                           |          |
| hsn                        | '0001000'B                                          |          |
| mac_8n                     | '00001110'B                                         |          |
| <b>Detailed Comments:</b>  |                                                     |          |

| Structured Type Constraint |                                                                 |          |
|----------------------------|-----------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freq_rd8                                                        |          |
| <b>Structured Type:</b>    | FRQPARA                                                         |          |
| <b>Derivation Path:</b>    | FreqSDCCH8_rg1.Freq_rg8.                                        |          |
| <b>Comments:</b>           | hopping channel of TC_26_6_4_2_2 for DCS, immediate assignment. |          |
| Element Name               | Element Value                                                   | Comments |
| flst                       | Frql_17                                                         |          |
| <b>Detailed Comments:</b>  |                                                                 |          |

| Structured Type Constraint |                                                                       |          |
|----------------------------|-----------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freq_rg9                                                              |          |
| <b>Structured Type:</b>    | FRQPARA                                                               |          |
| <b>Derivation Path:</b>    | FreqSDCCH8_rg1.                                                       |          |
| <b>Comments:</b>           | hopping channel of TC_26_6_13_5 for GSM, immediate assignment. cell A |          |
| Element Name               | Element Value                                                         | Comments |
| maio                       | INT_TO_BIT(TSPX_Maio14, 6)                                            |          |
| hsn                        | INT_TO_BIT(TSPX_Hsn14, 6)                                             |          |
| 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 |                                                                |          |
|----------------------------|----------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freq_rd9                                                       |          |
| <b>Structured Type:</b>    | FRQPARA                                                        |          |
| <b>Derivation Path:</b>    | FreqSDCCH8_rg1.Freq_rg9.                                       |          |
| <b>Comments:</b>           | hopping channel of TC_26_6_13_5 for DCS, immediate assignment. |          |
| Element Name               | Element Value                                                  | Comments |
| flst                       | Frql_20_A1d                                                    |          |
| <b>Detailed Comments:</b>  |                                                                |          |

| Structured Type Constraint |                                                                                |          |
|----------------------------|--------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freq_rg10                                                                      |          |
| <b>Structured Type:</b>    | FRQPARA                                                                        |          |
| <b>Derivation Path:</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                                                                  | Comments |
| hch                        | '1'B                                                                           |          |
| maio                       | INT_TO_BIT(TSPX_Maio15, 6)                                                     |          |
| hsn                        | INT_TO_BIT(TSPX_Hsn15, 6)                                                      |          |
| spr                        | OMIT                                                                           |          |
| arfcn                      | OMIT                                                                           |          |
| 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                     | OMIT                                                                           |          |
| mac_4n                     | OMIT                                                                           |          |
| mac_3n                     | OMIT                                                                           |          |
| mac_2n                     | OMIT                                                                           |          |
| mac_1n                     | OMIT                                                                           |          |
| flst                       | Frql_20_B0                                                                     |          |
| <b>Detailed Comments:</b>  |                                                                                |          |

| Structured Type Constraint |                                                                                 |          |
|----------------------------|---------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freq_rg11                                                                       |          |
| <b>Structured Type:</b>    | FRQPARA                                                                         |          |
| <b>Derivation Path:</b>    | Freq_rg10.                                                                      |          |
| <b>Comments:</b>           | hopping channel of TC_26_6_13_5 for GSM, hanfover command before time in Cell B |          |
| Element Name               | Element Value                                                                   | 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 |                                                                                 |          |
|----------------------------|---------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freq_rd11                                                                       |          |
| <b>Structured Type:</b>    | FRQPARA                                                                         |          |
| <b>Derivation Path:</b>    | Freq_rg10.Freq_rg11.                                                            |          |
| <b>Comments:</b>           | hopping channel of TC_26_6_13_5 for DCS, handover command before time in Cell B |          |
| Element Name               | Element Value                                                                   | Comments |
| flst                       | Frql_20_B1d                                                                     |          |
| <b>Detailed Comments:</b>  |                                                                                 |          |

| Structured Type Constraint |                                                                       |          |
|----------------------------|-----------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freq_rg12                                                             |          |
| <b>Structured Type:</b>    | FRQPARA                                                               |          |
| <b>Derivation Path:</b>    | FreqSDCCH8_rg1.                                                       |          |
| <b>Comments:</b>           | hopping channel of TC_26_6_13_6 for GSM, immediate assignment. cell A |          |
| Element Name               | Element Value                                                         | 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 |                                                                       |          |
|----------------------------|-----------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freq_rd12                                                             |          |
| <b>Structured Type:</b>    | FRQPARA                                                               |          |
| <b>Derivation Path:</b>    | FreqSDCCH8_rg1.Freq_rg12.                                             |          |
| <b>Comments:</b>           | hopping channel of TC_26_6_13_6 for DCS, immediate assignment. Cell A |          |
| Element Name               | Element Value                                                         | Comments |
| flst                       | Frql_20_A1d                                                           |          |
| <b>Detailed Comments:</b>  |                                                                       |          |

| Structured Type Constraint |                                                                                |          |
|----------------------------|--------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freq_rg13                                                                      |          |
| <b>Structured Type:</b>    | FRQPARA                                                                        |          |
| <b>Derivation Path:</b>    | Freq_rg10.                                                                     |          |
| <b>Comments:</b>           | hopping channel of TC_26_6_13_6 for GSM, hanfover command after time in Cell B |          |
| Element Name               | Element Value                                                                  | Comments |
| maio                       | INT_TO_BIT(TSPX_Maio18, 6)                                                     |          |
| hsn                        | INT_TO_BIT(TSPX_Hsn18, 6)                                                      |          |
| 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 |                                                                                |          |
|----------------------------|--------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freq_rd13                                                                      |          |
| <b>Structured Type:</b>    | FRQPARA                                                                        |          |
| <b>Derivation Path:</b>    | Freq_rg10.                                                                     |          |
| <b>Comments:</b>           | hopping channel of TC_26_6_13_6 for DCS, handover command after time in Cell B |          |
| Element Name               | Element Value                                                                  | Comments |
| flst                       | Frql_20_B1d                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                                |          |

| Structured Type Constraint |                                                                |          |
|----------------------------|----------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freq_rg14                                                      |          |
| <b>Structured Type:</b>    | FRQPARA                                                        |          |
| <b>Derivation Path:</b>    | FreqSDCCH8_rg1.                                                |          |
| <b>Comments:</b>           | hopping channel of TC_26_6_13_7 for GSM, immediate assignment. |          |
| Element Name               | Element Value                                                  | 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 |                                                                |          |
|----------------------------|----------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freq_rd14                                                      |          |
| <b>Structured Type:</b>    | FRQPARA                                                        |          |
| <b>Derivation Path:</b>    | FreqSDCCH8_rg1.Freq_rg14.                                      |          |
| <b>Comments:</b>           | hopping channel of TC_26_6_13_7 for DCS, immediate assignment. |          |
| Element Name               | Element Value                                                  | Comments |
| flst                       | Frql_20_A1d                                                    |          |
| <b>Detailed Comments:</b>  |                                                                |          |



| Structured Type Constraint |                                                                |          |
|----------------------------|----------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freq_rg15                                                      |          |
| <b>Structured Type:</b>    | FRQPARA                                                        |          |
| <b>Derivation Path:</b>    | FreqSDCCH8_rg1.                                                |          |
| <b>Comments:</b>           | hopping channel of TC_26_6_13_8 for GSM, immediate assignment. |          |
| Element Name               | Element Value                                                  | 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 |                                                                |          |
|----------------------------|----------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freq_rd15                                                      |          |
| <b>Structured Type:</b>    | FRQPARA                                                        |          |
| <b>Derivation Path:</b>    | FreqSDCCH8_rg1.Freq_rg15.                                      |          |
| <b>Comments:</b>           | hopping channel of TC_26_6_13_8 for DCS, immediate assignment. |          |
| Element Name               | Element Value                                                  | Comments |
| flst                       | Frql_20_A1d                                                    |          |
| <b>Detailed Comments:</b>  |                                                                |          |

| Structured Type Constraint |                                                                            |          |
|----------------------------|----------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freq_rg16                                                                  |          |
| <b>Structured Type:</b>    | FRQPARA                                                                    |          |
| <b>Derivation Path:</b>    | FreqSDCCH8_rg1.                                                            |          |
| <b>Comments:</b>           | hopping channel of TC_26_6_13_9 for GSM, immediate assignment before time. |          |
| Element Name               | Element Value                                                              | Comments |
| maio                       | INT_TO_BIT(TSPX_Maio29, 6)                                                 |          |
| 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 |                                                                            |          |
|----------------------------|----------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freq_rd16                                                                  |          |
| <b>Structured Type:</b>    | FRQPARA                                                                    |          |
| <b>Derivation Path:</b>    | FreqSDCCH8_rg1.Freq_rg16.                                                  |          |
| <b>Comments:</b>           | hopping channel of TC_26_6_13_8 for DCS, immediate assignment before time. |          |
| Element Name               | Element Value                                                              | Comments |
| flst                       | Frql_20_A1d                                                                |          |
| <b>Detailed Comments:</b>  |                                                                            |          |

| Structured Type Constraint |                                                                            |          |
|----------------------------|----------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freq_rg17                                                                  |          |
| <b>Structured Type:</b>    | FRQPARA                                                                    |          |
| <b>Derivation Path:</b>    | FreqSDCCH8_rg1.                                                            |          |
| <b>Comments:</b>           | hopping channel of TC_26_6_13_10 for GSM, immediate assignment after time. |          |
| Element Name               | Element Value                                                              | 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 |                                                                           |          |
|----------------------------|---------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freq_rd17                                                                 |          |
| <b>Structured Type:</b>    | FRQPARA                                                                   |          |
| <b>Derivation Path:</b>    | FreqSDCCH8_rg1.Freq_rg17.                                                 |          |
| <b>Comments:</b>           | hopping channel of TC_26_6_13_8 for DCS, immediate assignment after time. |          |
| Element Name               | Element Value                                                             | Comments |
| flst                       | Frql_20_A1d                                                               |          |
| <b>Detailed Comments:</b>  |                                                                           |          |

| Structured Type Constraint |                                                               |          |
|----------------------------|---------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freq_rg18                                                     |          |
| <b>Structured Type:</b>    | FRQPARA                                                       |          |
| <b>Derivation Path:</b>    |                                                               |          |
| <b>Comments:</b>           | hopping channel of TC_26_6_6_1 for GSM, immediate assignment. |          |
| Element Name               | Element Value                                                 | Comments |
| hch                        | '1'B                                                          |          |
| maio                       | '001001'B                                                     |          |
| hsn                        | '000000'B                                                     |          |
| spr                        | OMIT                                                          |          |
| arfcn                      | OMIT                                                          |          |
| maclength                  | '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                                                   |          |
| flst                       | Frql_20                                                       |          |
| <b>Detailed Comments:</b>  |                                                               |          |

| Structured Type Constraint |                                                               |          |
|----------------------------|---------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freq_rd18                                                     |          |
| <b>Structured Type:</b>    | FRQPARA                                                       |          |
| <b>Derivation Path:</b>    | Freq_rg18.                                                    |          |
| <b>Comments:</b>           | hopping channel of TC_26_6_6_1 for DCS, immediate assignment. |          |
| Element Name               | Element Value                                                 | Comments |
| flst                       | Frql_29                                                       |          |
| <b>Detailed Comments:</b>  |                                                               |          |

| <b>Structured Type Constraint</b> |                                                               |          |
|-----------------------------------|---------------------------------------------------------------|----------|
| <b>Constraint Name:</b>           | Freq_rg19                                                     |          |
| <b>Structured Type:</b>           | FRQPARA                                                       |          |
| <b>Derivation Path:</b>           | Freq_rg18.                                                    |          |
| <b>Comments:</b>                  | hopping channel of TC_26_6_6_1 for GSM, immediate assignment. |          |
| Element Name                      | Element Value                                                 | Comments |
| 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                                                   |          |
| flst                              | Frql_21                                                       |          |
| <b>Detailed Comments:</b>         |                                                               |          |

| <b>Structured Type Constraint</b> |                                                               |          |
|-----------------------------------|---------------------------------------------------------------|----------|
| <b>Constraint Name:</b>           | Freq_rd19                                                     |          |
| <b>Structured Type:</b>           | FRQPARA                                                       |          |
| <b>Derivation Path:</b>           | Freq_rg18.Freq_rg19.                                          |          |
| <b>Comments:</b>                  | hopping channel of TC_26_6_6_1 for DCS, immediate assignment. |          |
| Element Name                      | Element Value                                                 | Comments |
| flst                              | Frql_30                                                       |          |
| <b>Detailed Comments:</b>         |                                                               |          |

| <b>Structured Type Constraint</b> |                                                               |          |
|-----------------------------------|---------------------------------------------------------------|----------|
| <b>Constraint Name:</b>           | Freq_rg20                                                     |          |
| <b>Structured Type:</b>           | FRQPARA                                                       |          |
| <b>Derivation Path:</b>           | Freq_rg18.                                                    |          |
| <b>Comments:</b>                  | hopping channel of TC_26_6_6_1 for GSM, immediate assignment. |          |
| Element Name                      | Element Value                                                 | Comments |
| 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                                                   |          |
| flst                              | Frql_22                                                       |          |
| <b>Detailed Comments:</b>         |                                                               |          |

| <b>Structured Type Constraint</b> |                                                               |          |
|-----------------------------------|---------------------------------------------------------------|----------|
| <b>Constraint Name:</b>           | Freq_rd20                                                     |          |
| <b>Structured Type:</b>           | FRQPARA                                                       |          |
| <b>Derivation Path:</b>           | Freq_rg18.Freq_rg20.                                          |          |
| <b>Comments:</b>                  | hopping channel of TC_26_6_6_1 for DCS, immediate assignment. |          |
| Element Name                      | Element Value                                                 | Comments |
| flst                              | Frql_31                                                       |          |
| <b>Detailed Comments:</b>         |                                                               |          |

| Structured Type Constraint |                                                               |          |
|----------------------------|---------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freq_rg21                                                     |          |
| <b>Structured Type:</b>    | FRQPARA                                                       |          |
| <b>Derivation Path:</b>    | Freq_rg18.                                                    |          |
| <b>Comments:</b>           | hopping channel of TC_26_6_6_1 for GSM, immediate assignment. |          |
| Element Name               | Element Value                                                 | Comments |
| 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                                                   |          |
| flst                       | Frql_23                                                       |          |
| <b>Detailed Comments:</b>  |                                                               |          |

| Structured Type Constraint                                                                    |                                                               |          |
|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------|
| <b>Constraint Name:</b>                                                                       | Freq_rd21                                                     |          |
| <b>Structured Type:</b>                                                                       | FRQPARA                                                       |          |
| <b>Derivation Path:</b>                                                                       | Freq_rg18.Freq_rg21.                                          |          |
| <b>Comments:</b>                                                                              | hopping channel of TC_26_6_6_1 for DCS, immediate assignment. |          |
| Element Name                                                                                  | Element Value                                                 | Comments |
| flst                                                                                          | Frql_32                                                       |          |
| <b>Detailed Comments:</b> ARFCN's: 717, ..., 724, 733, ..., 744, 757, ..., 760, 773, ..., 812 |                                                               |          |

| Structured Type Constraint |                                                               |          |
|----------------------------|---------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freq_rg22                                                     |          |
| <b>Structured Type:</b>    | FRQPARA                                                       |          |
| <b>Derivation Path:</b>    | Freq_rg18.                                                    |          |
| <b>Comments:</b>           | hopping channel of TC_26_6_6_1 for GSM, immediate assignment. |          |
| Element Name               | Element Value                                                 | Comments |
| 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                                                   |          |
| flst                       | Frql_24                                                       |          |
| <b>Detailed Comments:</b>  |                                                               |          |

| Structured Type Constraint                                                                                                                                                                                               |                                                               |          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------|
| <b>Constraint Name:</b>                                                                                                                                                                                                  | Freq_rd22                                                     |          |
| <b>Structured Type:</b>                                                                                                                                                                                                  | FRQPARA                                                       |          |
| <b>Derivation Path:</b>                                                                                                                                                                                                  | Freq_rg18.Freq_rg22.                                          |          |
| <b>Comments:</b>                                                                                                                                                                                                         | hopping channel of TC_26_6_6_1 for DCS, immediate assignment. |          |
| Element Name                                                                                                                                                                                                             | Element Value                                                 | 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 |                                                               |          |
|----------------------------|---------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freq_rg23                                                     |          |
| <b>Structured Type:</b>    | FRQPARA                                                       |          |
| <b>Derivation Path:</b>    | Freq_rg18.                                                    |          |
| <b>Comments:</b>           | hopping channel of TC_26_6_6_1 for GSM, immediate assignment. |          |
| Element Name               | Element Value                                                 | Comments |
| 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                                                   |          |
| flst                       | Frql_25                                                       |          |
| <b>Detailed Comments:</b>  |                                                               |          |

| Structured Type Constraint                                                                                                                                                                                                                          |                                                               |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------|
| <b>Constraint Name:</b>                                                                                                                                                                                                                             | Freq_rd23                                                     |          |
| <b>Structured Type:</b>                                                                                                                                                                                                                             | FRQPARA                                                       |          |
| <b>Derivation Path:</b>                                                                                                                                                                                                                             | Freq_rg18.Freq_rg23.                                          |          |
| <b>Comments:</b>                                                                                                                                                                                                                                    | hopping channel of TC_26_6_6_1 for DCS, immediate assignment. |          |
| Element Name                                                                                                                                                                                                                                        | Element Value                                                 | 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 |                                                               |          |
|----------------------------|---------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freq_rg24                                                     |          |
| <b>Structured Type:</b>    | FRQPARA                                                       |          |
| <b>Derivation Path:</b>    | Freq_rg18.                                                    |          |
| <b>Comments:</b>           | hopping channel of TC_26_6_6_1 for GSM, immediate assignment. |          |
| Element Name               | Element Value                                                 | Comments |
| 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                                                   |          |
| flst                       | Frql_26                                                       |          |
| <b>Detailed Comments:</b>  |                                                               |          |

| Structured Type Constraint                                                                                                                                                                                       |                                                               |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------|
| <b>Constraint Name:</b>                                                                                                                                                                                          | Freq_rd24                                                     |          |
| <b>Structured Type:</b>                                                                                                                                                                                          | FRQPARA                                                       |          |
| <b>Derivation Path:</b>                                                                                                                                                                                          | Freq_rg18.Freq_rg24.                                          |          |
| <b>Comments:</b>                                                                                                                                                                                                 | hopping channel of TC_26_6_6_1 for DCS, immediate assignment. |          |
| Element Name                                                                                                                                                                                                     | Element Value                                                 | 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 |                                                               |          |
|----------------------------|---------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freq_rg25                                                     |          |
| <b>Structured Type:</b>    | FRQPARA                                                       |          |
| <b>Derivation Path:</b>    | Freq_rg18.                                                    |          |
| <b>Comments:</b>           | hopping channel of TC_26_6_6_1 for GSM, immediate assignment. |          |
| Element Name               | Element Value                                                 | Comments |
| 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                                                   |          |
| flst                       | Frql_27                                                       |          |
| <b>Detailed Comments:</b>  |                                                               |          |

| Structured Type Constraint                                                                                                                                                                                |                                                               |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------|
| <b>Constraint Name:</b>                                                                                                                                                                                   | Freq_rd25                                                     |          |
| <b>Structured Type:</b>                                                                                                                                                                                   | FRQPARA                                                       |          |
| <b>Derivation Path:</b>                                                                                                                                                                                   | Freq_rg18.Freq_rg25.                                          |          |
| <b>Comments:</b>                                                                                                                                                                                          | hopping channel of TC_26_6_6_1 for DCS, immediate assignment. |          |
| Element Name                                                                                                                                                                                              | Element Value                                                 | 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 |                                                               |          |
|----------------------------|---------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freq_rg26                                                     |          |
| <b>Structured Type:</b>    | FRQPARA                                                       |          |
| <b>Derivation Path:</b>    |                                                               |          |
| <b>Comments:</b>           | hopping channel of TC_26_6_6_1 for GSM, immediate assignment. |          |
| Element Name               | Element Value                                                 | Comments |
| hch                        | '1'B                                                          |          |
| maio                       | '001001'B                                                     |          |
| hsn                        | '000000'B                                                     |          |
| spr                        | OMIT                                                          |          |
| arfcn                      | OMIT                                                          |          |
| maclength                  | '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                                                   |          |
| flst                       | Frql_28                                                       |          |
| <b>Detailed Comments:</b>  |                                                               |          |

| Structured Type Constraint |                                                               |          |
|----------------------------|---------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Freq_rd26                                                     |          |
| <b>Structured Type:</b>    | FRQPARA                                                       |          |
| <b>Derivation Path:</b>    |                                                               |          |
| <b>Comments:</b>           | hopping channel of TC_26_6_6_1 for DCS, immediate assignment. |          |
| Element Name               | Element Value                                                 | Comments |
| hch                        | '1'B                                                          |          |
| maio                       | '001001'B                                                     |          |
| hsn                        | '000000'B                                                     |          |
| spr                        | OMIT                                                          |          |
| arfcn                      | OMIT                                                          |          |
| maclength                  | '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                                                   |          |
| flst                       | Frql_37                                                       |          |
| <b>Detailed Comments:</b>  | ARFCN's: 717, ..., 748, 765, ..., 796                         |          |

| Structured Type Constraint |                                                  |          |
|----------------------------|--------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Frql(par_flist, par_flistl: OCTETSTRING)         |          |
| <b>Structured Type:</b>    | FRQL                                             |          |
| <b>Derivation Path:</b>    |                                                  |          |
| <b>Comments:</b>           | parametrized frequency list information element. |          |
| Element Name               | Element Value                                    | Comments |
| iei                        | '00000101'B                                      |          |
| iel                        | par_flistl                                       |          |
| fl                         | par_flist                                        |          |
| <b>Detailed Comments:</b>  |                                                  |          |

| Structured Type Constraint |               |          |
|----------------------------|---------------|----------|
| <b>Constraint Name:</b>    | Frql_omit     |          |
| <b>Structured Type:</b>    | FRQL          |          |
| <b>Derivation Path:</b>    |               |          |
| <b>Comments:</b>           |               |          |
| Element Name               | Element Value | Comments |
| iei                        | OMIT          |          |
| iel                        | OMIT          |          |
| fl                         | OMIT          |          |
| <b>Detailed Comments:</b>  |               |          |

| Structured Type Constraint |                                                        |          |
|----------------------------|--------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Frql_short(flist: OCTETSTRING)                         |          |
| <b>Structured Type:</b>    | FRQL                                                   |          |
| <b>Derivation Path:</b>    |                                                        |          |
| <b>Comments:</b>           | parametrized frequency short list information element. |          |
| Element Name               | Element Value                                          | Comments |
| iei                        | '00000010'B                                            |          |
| iel                        | OMIT                                                   |          |
| fl                         | flist                                                  |          |
| <b>Detailed Comments:</b>  |                                                        |          |





| Structured Type Constraint          |                                         |          |
|-------------------------------------|-----------------------------------------|----------|
| <b>Constraint Name:</b> Frql_08     |                                         |          |
| <b>Structured Type:</b> FRQL        |                                         |          |
| <b>Derivation Path:</b>             |                                         |          |
| <b>Comments:</b> ARFCNs 30, 50, 70. |                                         |          |
| Element Name                        | Element Value                           | Comments |
| iei                                 | '00000101'B                             |          |
| iel                                 | '10'O                                   |          |
| fl                                  | '00020800000001000008000200000200'<br>O |          |
| <b>Detailed Comments:</b>           |                                         |          |

| Structured Type Constraint                                |                                          |          |
|-----------------------------------------------------------|------------------------------------------|----------|
| <b>Constraint Name:</b> Frql_09                           |                                          |          |
| <b>Structured Type:</b> FRQL                              |                                          |          |
| <b>Derivation Path:</b>                                   |                                          |          |
| <b>Comments:</b> ARFCNs 734, 741, 759, 766, 773, 832, 844 |                                          |          |
| Element Name                                              | Element Value                            | Comments |
| iei                                                       | '00000101'B                              |          |
| iel                                                       | '10'O                                    |          |
| fl                                                        | '82FEF390BE71448300000000000000000'<br>O |          |
| <b>Detailed Comments:</b>                                 |                                          |          |

| Structured Type Constraint                                     |                                           |          |
|----------------------------------------------------------------|-------------------------------------------|----------|
| <b>Constraint Name:</b> Frql_10                                |                                           |          |
| <b>Structured Type:</b> FRQL                                   |                                           |          |
| <b>Derivation Path:</b>                                        |                                           |          |
| <b>Comments:</b> ARFCNs 10, 17, 20, 26, 34, 42, 45, 46, 52, 59 |                                           |          |
| Element Name                                                   | Element Value                             | Comments |
| iei                                                            | '00000101'B                               |          |
| iel                                                            | '10'O                                     |          |
| fl                                                             | '0000000000000000000408320202090200'<br>O |          |
| <b>Detailed Comments:</b>                                      |                                           |          |

| Structured Type Constraint                                           |                                          |          |
|----------------------------------------------------------------------|------------------------------------------|----------|
| <b>Constraint Name:</b> Frql_11                                      |                                          |          |
| <b>Structured Type:</b> FRQL                                         |                                          |          |
| <b>Derivation Path:</b>                                              |                                          |          |
| <b>Comments:</b> ARFCNs 45, 46, 52, 59, 66, 73, 74, 75, 76, 108, 114 |                                          |          |
| Element Name                                                         | Element Value                            | Comments |
| iei                                                                  | '00000101'B                              |          |
| iel                                                                  | '10'O                                    |          |
| fl                                                                   | '0002080000000F0204083000000000000'<br>O |          |
| <b>Detailed Comments:</b>                                            |                                          |          |

| Structured Type Constraint |                                           |          |
|----------------------------|-------------------------------------------|----------|
| <b>Constraint Name:</b>    | FrqL_12                                   |          |
| <b>Structured Type:</b>    | FRQL                                      |          |
| <b>Derivation Path:</b>    |                                           |          |
| <b>Comments:</b>           | ARFCNs 17, 20                             |          |
| Element Name               | Element Value                             | Comments |
| iei                        | '00000101'B                               |          |
| iel                        | '10'O                                     |          |
| fl                         | '0000000000000000000000000000090000'<br>O |          |
| <b>Detailed Comments:</b>  |                                           |          |

| Structured Type Constraint |                                                         |          |
|----------------------------|---------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FrqL_13                                                 |          |
| <b>Structured Type:</b>    | FRQL                                                    |          |
| <b>Derivation Path:</b>    |                                                         |          |
| <b>Comments:</b>           | ARFCNs 734, 741, 747, 754, 759, 766, 773, 775, 779, 782 |          |
| Element Name               | Element Value                                           | Comments |
| iei                        | '00000101'B                                             |          |
| iel                        | '10'O                                                   |          |
| fl                         | '82FEF6837EBF0300FCFEF6000000000'<br>0'O                |          |
| <b>Detailed Comments:</b>  |                                                         |          |

| Structured Type Constraint |                                                     |          |
|----------------------------|-----------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FrqL_14                                             |          |
| <b>Structured Type:</b>    | FRQL                                                |          |
| <b>Derivation Path:</b>    |                                                     |          |
| <b>Comments:</b>           | ARFCNs: 773, 775, 779, 782, 791, 789, 829, 832, 844 |          |
| Element Name               | Element Value                                       | Comments |
| iei                        | '00000101'B                                         |          |
| iel                        | '10'O                                               |          |
| fl                         | '8315FB0AFF3F40C33F5A000000000000'<br>'O            |          |
| <b>Detailed Comments:</b>  |                                                     |          |

| Structured Type Constraint |                                         |          |
|----------------------------|-----------------------------------------|----------|
| <b>Constraint Name:</b>    | FrqL_15                                 |          |
| <b>Structured Type:</b>    | FRQL                                    |          |
| <b>Derivation Path:</b>    |                                         |          |
| <b>Comments:</b>           | ARFCNs 741, 747                         |          |
| Element Name               | Element Value                           | Comments |
| iei                        | '00000101'B                             |          |
| iel                        | '10'O                                   |          |
| fl                         | '82EBFD00000000000000000000000000'<br>O |          |
| <b>Detailed Comments:</b>  |                                         |          |



| Structured Type Constraint |                                                               |          |
|----------------------------|---------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Frql_20_egsm(par_flist: OCTETSTRING; par_flistl: OCTETSTRING) |          |
| <b>Structured Type:</b>    | FRQL                                                          |          |
| <b>Derivation Path:</b>    |                                                               |          |
| <b>Comments:</b>           | Complete Cell Allocation in EGSM cases.                       |          |
| Element Name               | Element Value                                                 | Comments |
| iei                        | '00000101'B                                                   |          |
| iel                        | par_flistl                                                    |          |
| fl                         | par_flist                                                     |          |
| <b>Detailed Comments:</b>  |                                                               |          |

| Structured Type Constraint |                                                                                                             |          |
|----------------------------|-------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Frql_20_A                                                                                                   |          |
| <b>Structured Type:</b>    | FRQL                                                                                                        |          |
| <b>Derivation Path:</b>    |                                                                                                             |          |
| <b>Comments:</b>           | frequency list, after time used in HO_case in cell A.<br>List_ARFCN={10,17,20,26,59,66,73,74,75,76,108,114} |          |
| Element Name               | Element Value                                                                                               | Comments |
| iei                        | '00000101'B                                                                                                 |          |
| iel                        | '10'O                                                                                                       |          |
| fl                         | '0002080000000F020300000002090200'<br>O                                                                     |          |
| <b>Detailed Comments:</b>  |                                                                                                             |          |

| Structured Type Constraint |                                                                                                                                        |          |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Frql_20_Ad                                                                                                                             |          |
| <b>Structured Type:</b>    | FRQL                                                                                                                                   |          |
| <b>Derivation Path:</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                                                                                                                          | Comments |
| iei                        | '00000101'B                                                                                                                            |          |
| iel                        | '09'O                                                                                                                                  |          |
| fl                         | '8B7599F045EFA499C0'O                                                                                                                  |          |
| <b>Detailed Comments:</b>  |                                                                                                                                        |          |

| Structured Type Constraint |                                                                                                                                                                                                          |          |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Frql_20_A1d                                                                                                                                                                                              |          |
| <b>Structured Type:</b>    | FRQL                                                                                                                                                                                                     |          |
| <b>Derivation Path:</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<br>List_ARFCN = {734, 741, 747, 754, 759, 762, 766, 767, 773, 775, 779, 782, 791, 798, 829, 832, 844} |          |
| Element Name               | Element Value                                                                                                                                                                                            | Comments |
| iei                        | '00000101'B                                                                                                                                                                                              |          |
| iel                        | '0E'O                                                                                                                                                                                                    |          |
| fl                         | '8B6F1473F32FC602C59EFA5499940'<br>O                                                                                                                                                                     |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                                                          |          |

| Structured Type Constraint |                                                                                                                       |          |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Frql_20_A2                                                                                                            |          |
| <b>Structured Type:</b>    | FRQL                                                                                                                  |          |
| <b>Derivation Path:</b>    |                                                                                                                       |          |
| <b>Comments:</b>           | Complete Cell Allocation of cell A in HO cases.<br>ARFCN_list={10,17,20,26,34,42,45,46,52,59,66,73,74,75,76,108,114}. |          |
| Element Name               | Element Value                                                                                                         | Comments |
| iei                        | '00000101'B                                                                                                           |          |
| iel                        | '10'O                                                                                                                 |          |
| fl                         | '0002080000000F020408320202090200'<br>O                                                                               |          |
| <b>Detailed Comments:</b>  |                                                                                                                       |          |

| Structured Type Constraint |                                                                                                                                                                                                                                             |          |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Frql_20_A2d                                                                                                                                                                                                                                 |          |
| <b>Structured Type:</b>    | FRQL                                                                                                                                                                                                                                        |          |
| <b>Derivation Path:</b>    |                                                                                                                                                                                                                                             |          |
| <b>Comments:</b>           | Complete Cell Allocation of Cell A in HO cases using 512 format.<br>frequency list, after time for a target cell used in HO_case in cell A for DCS1800.<br>List_ARFCN={734,741,747,754,759,762,766,767,773,775,779,782,791,798,829,832,844} |          |
| Element Name               | Element Value                                                                                                                                                                                                                               | Comments |
| iei                        | '00000101'B                                                                                                                                                                                                                                 |          |
| iel                        | '10'O                                                                                                                                                                                                                                       |          |
| fl                         | '896F0A7CC5FC700A8B9F7FF45246334'<br>0'O                                                                                                                                                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                                                                                             |          |

| Structured Type Constraint |                                                                                                                                   |          |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Frql_20_B0                                                                                                                        |          |
| <b>Structured Type:</b>    | FRQL                                                                                                                              |          |
| <b>Derivation Path:</b>    |                                                                                                                                   |          |
| <b>Comments:</b>           | Complete Cell Allocation of cell B in HO cases.<br>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                                                                                                                     | Comments |
| iei                        | '00000101'B                                                                                                                       |          |
| iel                        | '10'O                                                                                                                             |          |
| fl                         | '0002080000000F02080000A060A22000'<br>O                                                                                           |          |
| <b>Detailed Comments:</b>  |                                                                                                                                   |          |

| Structured Type Constraint |                                                                                                                                                                                           |          |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Frql_20_B0d                                                                                                                                                                               |          |
| <b>Structured Type:</b>    | FRQL                                                                                                                                                                                      |          |
| <b>Derivation Path:</b>    |                                                                                                                                                                                           |          |
| <b>Comments:</b>           | frequency list, after time for cell B using 512 format.<br>List_ARFCN= complete cell allocation of cell B in HO cases.<br>739,743,746,749,756,758,761,764,771,779,782,791,798,829,832,844 |          |
| Element Name               | Element Value                                                                                                                                                                             | Comments |
| iei                        | '00000101'B                                                                                                                                                                               |          |
| iel                        | '0F'O                                                                                                                                                                                     |          |
| fl                         | '8971883C46FB700A8BDF7DF4324330'<br>O                                                                                                                                                     |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                                           |          |

| Structured Type Constraint |                                                                                                       |          |
|----------------------------|-------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Frql_20_B1                                                                                            |          |
| <b>Structured Type:</b>    | FRQL                                                                                                  |          |
| <b>Derivation Path:</b>    |                                                                                                       |          |
| <b>Comments:</b>           | frequency list, after time for cell B.<br>List_ARFCN={14,18,22,24,30,31,38,53,66,73,74,75,76,108,114} |          |
| Element Name               | Element Value                                                                                         | Comments |
| iei                        | '00000101'B                                                                                           |          |
| iel                        | '10'O                                                                                                 |          |
| fl                         | '0002080000000F02001000206022000'<br>O                                                                |          |
| <b>Detailed Comments:</b>  |                                                                                                       |          |

| Structured Type Constraint |                                                                                                                                                   |          |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Frql_20_B1d                                                                                                                                       |          |
| <b>Structured Type:</b>    | FRQL                                                                                                                                              |          |
| <b>Derivation Path:</b>    |                                                                                                                                                   |          |
| <b>Comments:</b>           | frequency list, used in TC_26_6_13 for cell B.List_ARFCN =<br>{739,743,746,749,756,758,761,764,771,779,782,791,798,829,832,844} using 256 format. |          |
| Element Name               | Element Value                                                                                                                                     | Comments |
| iei                        | '00000101'B                                                                                                                                       |          |
| iel                        | '0D'O                                                                                                                                             |          |
| fl                         | '8A71907137B602C5DEF7A348D8'O                                                                                                                     |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                   |          |

| Structured Type Constraint |                                                                                                                                                          |          |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Frql_20_B2                                                                                                                                               |          |
| <b>Structured Type:</b>    | FRQL                                                                                                                                                     |          |
| <b>Derivation Path:</b>    |                                                                                                                                                          |          |
| <b>Comments:</b>           | frequency list, after time for cell B. Complete Cell Allocation of cell B in HO cases.<br>List_ARFCN={14,18,22,24,30,31,38,40,60,66,73,74,75,76,108,114} |          |
| Element Name               | Element Value                                                                                                                                            | Comments |
| iei                        | '00000101'B                                                                                                                                              |          |
| iel                        | '10'O                                                                                                                                                    |          |
| fl                         | '0002080000000F02080000A060A22000'<br>O                                                                                                                  |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                          |          |

| Structured Type Constraint |                                                                                           |          |
|----------------------------|-------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Frql_20_B3                                                                                |          |
| <b>Structured Type:</b>    | FRQL                                                                                      |          |
| <b>Derivation Path:</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                                                                             | Comments |
| iei                        | '00000101'B                                                                               |          |
| iel                        | '10'O                                                                                     |          |
| fl                         | '0002080000000F020800000000A22000'<br>O                                                   |          |
| <b>Detailed Comments:</b>  |                                                                                           |          |

| Structured Type Constraint |                                                                                      |          |
|----------------------------|--------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Frql_20_B4                                                                           |          |
| <b>Structured Type:</b>    | FRQL                                                                                 |          |
| <b>Derivation Path:</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                                                                        | Comments |
| iei                        | '00000101'B                                                                          |          |
| iel                        | '10'O                                                                                |          |
| fl                         | '0002080000000F020000008000000000'<br>O                                              |          |
| <b>Detailed Comments:</b>  |                                                                                      |          |

| Structured Type Constraint |                                                                                                                                     |          |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Frql_20_B3d                                                                                                                         |          |
| <b>Structured Type:</b>    | FRQL                                                                                                                                |          |
| <b>Derivation Path:</b>    |                                                                                                                                     |          |
| <b>Comments:</b>           | frequency list, after time for cell B using 1024 format.<br>List_ARFCN={749, 758, 761, 764, 771, 779, 782, 791, 798, 829, 832, 844} |          |
| Element Name               | Element Value                                                                                                                       | Comments |
| iei                        | '00000101'B                                                                                                                         |          |
| iel                        | '0D'O                                                                                                                               |          |
| fl                         | '830EF70BFEB843C3FBF9F1D018'O                                                                                                       |          |
| <b>Detailed Comments:</b>  |                                                                                                                                     |          |

| Structured Type Constraint |                                                                                                                     |          |
|----------------------------|---------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Frql_20_B4d                                                                                                         |          |
| <b>Structured Type:</b>    | FRQL                                                                                                                |          |
| <b>Derivation Path:</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                                                                                                       | Comments |
| iei                        | '00000101'B                                                                                                         |          |
| iel                        | '0D'O                                                                                                               |          |
| fl                         | '8F7E0001201020000000480080'O                                                                                       |          |
| <b>Detailed Comments:</b>  |                                                                                                                     |          |

| Structured Type Constraint |                                                                                                                     |          |
|----------------------------|---------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Frql_20_B5                                                                                                          |          |
| <b>Structured Type:</b>    | FRQL                                                                                                                |          |
| <b>Derivation Path:</b>    |                                                                                                                     |          |
| <b>Comments:</b>           | frequency list, after time for cell B.<br>List_ARFCN={14, 18, 22, 24, 30, 31, 38, 53, 66, 73, 74, 75, 76, 108, 114} |          |
| Element Name               | Element Value                                                                                                       | Comments |
| iei                        | '00000101'B                                                                                                         |          |
| iel                        | '10'O                                                                                                               |          |
| fl                         | '0002080000000F020010002060222000'<br>O                                                                             |          |
| <b>Detailed Comments:</b>  |                                                                                                                     |          |

| Structured Type Constraint |                                                                                                              |          |
|----------------------------|--------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Frql_20_B5d                                                                                                  |          |
| <b>Structured Type:</b>    | FRQL                                                                                                         |          |
| <b>Derivation Path:</b>    |                                                                                                              |          |
| <b>Comments:</b>           | frequency list, after time for cell B.<br>List_ARFCN={756, 758, 761, 771, 779, 782, 791, 798, 829, 832, 844} |          |
| Element Name               | Element Value                                                                                                | Comments |
| iei                        | '00000101'B                                                                                                  |          |
| iel                        | '09'O                                                                                                        |          |
| fl                         | '8D7A23B07B3D7FD4D0'O                                                                                        |          |
| <b>Detailed Comments:</b>  |                                                                                                              |          |

| Structured Type Constraint |                                                                                                              |          |
|----------------------------|--------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Frql_20_B6d                                                                                                  |          |
| <b>Structured Type:</b>    | FRQL                                                                                                         |          |
| <b>Derivation Path:</b>    |                                                                                                              |          |
| <b>Comments:</b>           | frequency list, after time for cell B.<br>List_ARFCN={761,764,771,779,782,791,798,829,832} range 512 format. |          |
| Element Name               | Element Value                                                                                                | Comments |
| iei                        | '00000101'B                                                                                                  |          |
| iel                        | '0A'O                                                                                                        |          |
| fl                         | '897C87BD09BC61060F90'O                                                                                      |          |
| <b>Detailed Comments:</b>  |                                                                                                              |          |

| Structured Type Constraint |                                                                                                       |          |
|----------------------------|-------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Frql_20_B7                                                                                            |          |
| <b>Structured Type:</b>    | FRQL                                                                                                  |          |
| <b>Derivation Path:</b>    |                                                                                                       |          |
| <b>Comments:</b>           | frequency list, after time for cell B.<br>List_ARFCN={14,18,22,24,30,31,38,60,66,73,74,75,76,108,114} |          |
| Element Name               | Element Value                                                                                         | Comments |
| iei                        | '00000101'B                                                                                           |          |
| iel                        | '10'O                                                                                                 |          |
| fl                         | '0002080000000F020800002060222000'<br>O                                                               |          |
| <b>Detailed Comments:</b>  |                                                                                                       |          |

| Structured Type Constraint |                                                                                                 |          |
|----------------------------|-------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Frql_20_B72                                                                                     |          |
| <b>Structured Type:</b>    | FRQL                                                                                            |          |
| <b>Derivation Path:</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                                                                                   | Comments |
| iei                        | '00000101'B                                                                                     |          |
| iel                        | '10'O                                                                                           |          |
| fl                         | '0000080000000F02000000A060A22000'<br>O                                                         |          |
| <b>Detailed Comments:</b>  |                                                                                                 |          |



| Structured Type Constraint |                                                                                        |          |
|----------------------------|----------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Frql_20_B7d                                                                            |          |
| <b>Structured Type:</b>    | FRQL                                                                                   |          |
| <b>Derivation Path:</b>    |                                                                                        |          |
| <b>Comments:</b>           | frequency short list, after time for cell B using 128 format.<br>List_ARFCN={746, 779} |          |
| Element Name               | Element Value                                                                          | Comments |
| iei                        | '00000010'B                                                                            |          |
| iel                        | '03'O                                                                                  |          |
| fl                         | '8D7521'O                                                                              |          |
| <b>Detailed Comments:</b>  |                                                                                        |          |

| Structured Type Constraint |                                                                                                                                                                                            |          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Frql_20_B8d                                                                                                                                                                                |          |
| <b>Structured Type:</b>    | FRQL                                                                                                                                                                                       |          |
| <b>Derivation Path:</b>    |                                                                                                                                                                                            |          |
| <b>Comments:</b>           | frequency list, after time for cell B using 1024 format.<br>List_ARFCN= complete cell allocation of cell B in HO cases.<br>739,743,746,749,756,758,761,764,771,779,782,791,798,829,832,844 |          |
| Element Name               | Element Value                                                                                                                                                                              | Comments |
| iei                        | '00000101'B                                                                                                                                                                                |          |
| iel                        | '10'O                                                                                                                                                                                      |          |
| fl                         | '8303F886FDBC0148BEFDFBF41890633<br>C'O                                                                                                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                                            |          |

| Structured Type Constraint |                                                                                                            |          |
|----------------------------|------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Frql_20_B9d                                                                                                |          |
| <b>Structured Type:</b>    | FRQL                                                                                                       |          |
| <b>Derivation Path:</b>    |                                                                                                            |          |
| <b>Comments:</b>           | frequency list, after time for cell B using 256 format<br>List_ARFCN={746,749,756,761,764,798,829,832,844} |          |
| Element Name               | Element Value                                                                                              | Comments |
| iei                        | '00000101'B                                                                                                |          |
| iel                        | '08'O                                                                                                      |          |
| fl                         | '8B751A2245DFA198'O                                                                                        |          |
| <b>Detailed Comments:</b>  |                                                                                                            |          |

| Structured Type Constraint |                                                                                   |          |
|----------------------------|-----------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Frql_20_B10d                                                                      |          |
| <b>Structured Type:</b>    | FRQL                                                                              |          |
| <b>Derivation Path:</b>    |                                                                                   |          |
| <b>Comments:</b>           | frequency list, after time for cell B using range 256 format, ARFCN={764,779,782} |          |
| Element Name               | Element Value                                                                     | Comments |
| iei                        | '00000101'B                                                                       |          |
| iel                        | '05'O                                                                             |          |
| fl                         | '8B7E097D00'O                                                                     |          |
| <b>Detailed Comments:</b>  |                                                                                   |          |

| Structured Type Constraint |                                                                                                                                                     |          |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FrqI_20_11d                                                                                                                                         |          |
| <b>Structured Type:</b>    | FRQL                                                                                                                                                |          |
| <b>Derivation Path:</b>    |                                                                                                                                                     |          |
| <b>Comments:</b>           | frequency list, after time for cell B using variable bit map format for<br>List_ARFCN={739,743,746,749,756,758,764,771,779,782,791,798,829,832,844} |          |
| Element Name               | Element Value                                                                                                                                       | Comments |
| iei                        | '00000101'B                                                                                                                                         |          |
| iel                        | '0F'O                                                                                                                                               |          |
| fl                         | '8F718920504080900810000000240040'<br>O                                                                                                             |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                     |          |

| Structured Type Constraint |                                                                                       |          |
|----------------------------|---------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FrqI_20_B12d                                                                          |          |
| <b>Structured Type:</b>    | FRQL                                                                                  |          |
| <b>Derivation Path:</b>    |                                                                                       |          |
| <b>Comments:</b>           | frequency short list, after time for cell B using 128 format List_ARFCN={758,761,771} |          |
| Element Name               | Element Value                                                                         | Comments |
| iei                        | '00000010'B                                                                           |          |
| iel                        | '04'O                                                                                 |          |
| fl                         | '8D7B0DD8'O                                                                           |          |
| <b>Detailed Comments:</b>  |                                                                                       |          |

| Structured Type Constraint |                                                                                                                         |          |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FrqI_20_A0E                                                                                                             |          |
| <b>Structured Type:</b>    | FRQL                                                                                                                    |          |
| <b>Derivation Path:</b>    |                                                                                                                         |          |
| <b>Comments:</b>           | Complete Cell Allocation of cell A in EGSM cases using of 1024 format.<br>ARFCN_list={0, 30, 40, 66, 1005, 1010, 1015}. |          |
| Element Name               | Element Value                                                                                                           | Comments |
| iei                        | '00000101'B                                                                                                             |          |
| iel                        | '10'O                                                                                                                   |          |
| fl                         | '841EEA893EF98143800000000000000'<br>O                                                                                  |          |
| <b>Detailed Comments:</b>  |                                                                                                                         |          |

| Structured Type Constraint                           |                                          |          |
|------------------------------------------------------|------------------------------------------|----------|
| <b>Constraint Name:</b>                              | FrqI_21                                  |          |
| <b>Structured Type:</b>                              | FRQL                                     |          |
| <b>Derivation Path:</b>                              |                                          |          |
| <b>Comments:</b>                                     | ARFCNs = 61.. 124 for GSM of TC_26_6_6_1 |          |
| Element Name                                         | Element Value                            | Comments |
| iei                                                  | '00000101'B                              |          |
| iel                                                  | '10'O                                    |          |
| fl                                                   | 'OFFFFFFFFF0000000000000000'<br>O        |          |
| <b>Detailed Comments:</b> B_ARFCN = 62, not in MA(1) |                                          |          |



| Structured Type Constraint |                                              |          |
|----------------------------|----------------------------------------------|----------|
| <b>Constraint Name:</b>    | FrqI_26                                      |          |
| <b>Structured Type:</b>    | FRQL                                         |          |
| <b>Derivation Path:</b>    |                                              |          |
| <b>Comments:</b>           | ARFCNs = 11, ..., 74, for GSM of TC_26_6_6_1 |          |
| Element Name               | Element Value                                | Comments |
| iei                        | '00000101'B                                  |          |
| iel                        | '10'O                                        |          |
| fl                         | '00000000000003FFFFFFFFFFFFFFFC0'O           |          |
| <b>Detailed Comments:</b>  | B_ARFCN = 18, not in MA(1)                   |          |

| Structured Type Constraint |                                              |          |
|----------------------------|----------------------------------------------|----------|
| <b>Constraint Name:</b>    | FrqI_27                                      |          |
| <b>Structured Type:</b>    | FRQL                                         |          |
| <b>Derivation Path:</b>    |                                              |          |
| <b>Comments:</b>           | ARFCNs = 31, ..., 94, for GSM of TC_26_6_6_1 |          |
| Element Name               | Element Value                                | Comments |
| iei                        | '00000101'B                                  |          |
| iel                        | '10'O                                        |          |
| fl                         | '000000003FFFFFFFFFFFFFFFC000000'O           |          |
| <b>Detailed Comments:</b>  | B_ARFCN = 38, not in MA(1)                   |          |

| Structured Type Constraint |                                               |          |
|----------------------------|-----------------------------------------------|----------|
| <b>Constraint Name:</b>    | FrqI_28                                       |          |
| <b>Structured Type:</b>    | FRQL                                          |          |
| <b>Derivation Path:</b>    |                                               |          |
| <b>Comments:</b>           | ARFCNs = 51, ..., 114, for GSM of TC_26_6_6_1 |          |
| Element Name               | Element Value                                 | Comments |
| iei                        | '00000101'B                                   |          |
| iel                        | '10'O                                         |          |
| fl                         | '0003FFFFFFFFFFFFFFFC0000000000'O             |          |
| <b>Detailed Comments:</b>  | B_ARFCN = 59, not in MA(1)                    |          |

| Structured Type Constraint |                                                |          |
|----------------------------|------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FrqI_29                                        |          |
| <b>Structured Type:</b>    | FRQL                                           |          |
| <b>Derivation Path:</b>    |                                                |          |
| <b>Comments:</b>           | ARFCNs = 749, ..., 812, for DCS of TC_26_6_6_1 |          |
| Element Name               | Element Value                                  | Comments |
| iei                        | '00000101'B                                    |          |
| iel                        | '10'O                                          |          |
| fl                         | '8F5E800000000000FFFFFFFFFFFFFFF'O             |          |
| <b>Detailed Comments:</b>  | Org_ARFCN = 701, B_ARFCN = 805, not in MA(1)   |          |

| Structured Type Constraint                                             |                                                |          |
|------------------------------------------------------------------------|------------------------------------------------|----------|
| <b>Constraint Name:</b>                                                | Frql_30                                        |          |
| <b>Structured Type:</b>                                                | FRQL                                           |          |
| <b>Derivation Path:</b>                                                |                                                |          |
| <b>Comments:</b>                                                       | ARFCNs = 749, ..., 812, for DCS of TC_26_6_6_1 |          |
| Element Name                                                           | Element Value                                  | Comments |
| iei                                                                    | '00000101'B                                    |          |
| iel                                                                    | '10'O                                          |          |
| fl                                                                     | '8F5EFFFFFFFFFFFFFFFF800000000000'O            |          |
| <b>Detailed Comments:</b> Org_ARFCN = 701, B_ARFCN = 706, not in MA(1) |                                                |          |

| Structured Type Constraint                                             |                                                                                             |          |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>                                                | Frql_31                                                                                     |          |
| <b>Structured Type:</b>                                                | FRQL                                                                                        |          |
| <b>Derivation Path:</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                                                                               | Comments |
| iei                                                                    | '00000101'B                                                                                 |          |
| iel                                                                    | '10'O                                                                                       |          |
| fl                                                                     | '8F5ED5555555D5D5D5D5D5D55555'O                                                             |          |
| <b>Detailed Comments:</b> Org_ARFCN = 701, B_ARFCN = 704, not in MA(1) |                                                                                             |          |

| Structured Type Constraint                                             |                                                                                             |          |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>                                                | Frql_32                                                                                     |          |
| <b>Structured Type:</b>                                                | FRQL                                                                                        |          |
| <b>Derivation Path:</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                                                                               | Comments |
| iei                                                                    | '00000101'B                                                                                 |          |
| iel                                                                    | '10'O                                                                                       |          |
| fl                                                                     | '8F5E8000FF00FF00F000FFFFFFFFF'O                                                            |          |
| <b>Detailed Comments:</b> Org_ARFCN = 701, B_ARFCN = 760, not in MA(1) |                                                                                             |          |

| Structured Type Constraint                                             |                                                                                                                                                                                                                   |          |
|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>                                                | Frql_33                                                                                                                                                                                                           |          |
| <b>Structured Type:</b>                                                | FRQL                                                                                                                                                                                                              |          |
| <b>Derivation Path:</b>                                                |                                                                                                                                                                                                                   |          |
| <b>Comments:</b>                                                       | ARFCNs: 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 for DCS of TC_26_6_6_1 |          |
| Element Name                                                           | Element Value                                                                                                                                                                                                     | Comments |
| iei                                                                    | '00000101'B                                                                                                                                                                                                       |          |
| iel                                                                    | '10'O                                                                                                                                                                                                             |          |
| fl                                                                     | '8F5EFFFFFFFF00044747474747474747'O                                                                                                                                                                               |          |
| <b>Detailed Comments:</b> Org_ARFCN = 701, B_ARFCN = 731, not in MA(1) |                                                                                                                                                                                                                   |          |





| Structured Type Constraint |                                                                                        |          |
|----------------------------|----------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Hlcmp_NotApplicable                                                                    |          |
| <b>Structured Type:</b>    | HLCMP                                                                                  |          |
| <b>Derivation Path:</b>    |                                                                                        |          |
| <b>Comments:</b>           | High Layer Compatibility IE which is not applicable for a specific service (empty IE). |          |
| Element Name               | Element Value                                                                          | Comments |
| iei                        | '01111101'B                                                                            |          |
| iel                        | '00'O                                                                                  |          |
| extb3                      | OMIT                                                                                   |          |
| cs                         | OMIT                                                                                   |          |
| in                         | OMIT                                                                                   |          |
| pmp                        | OMIT                                                                                   |          |
| extb4                      | OMIT                                                                                   |          |
| hlci                       | OMIT                                                                                   |          |
| extb4a                     | OMIT                                                                                   |          |
| ehlci                      | OMIT                                                                                   |          |
| <b>Detailed Comments:</b>  |                                                                                        |          |

| Structured Type Constraint |                                                 |          |
|----------------------------|-------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Hlcmp_TS61                                      |          |
| <b>Structured Type:</b>    | HLCMP                                           |          |
| <b>Derivation Path:</b>    |                                                 |          |
| <b>Comments:</b>           | High Layer Compatibility IE for teleservice 61. |          |
| Element Name               | Element Value                                   | Comments |
| iei                        | '01111101'B                                     |          |
| iel                        | '02'O                                           |          |
| extb3                      | '1'B                                            |          |
| cs                         | '00'B                                           |          |
| in                         | '100'B                                          |          |
| pmp                        | '01'B                                           |          |
| extb4                      | '?'B                                            |          |
| hlci                       | '0000100'B                                      |          |
| extb4a                     | *                                               |          |
| ehlci                      | *                                               |          |
| <b>Detailed Comments:</b>  |                                                 |          |

| Structured Type Constraint |                                                 |          |
|----------------------------|-------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Hlcmp_TS62                                      |          |
| <b>Structured Type:</b>    | HLCMP                                           |          |
| <b>Derivation Path:</b>    |                                                 |          |
| <b>Comments:</b>           | High Layer Compatibility IE for teleservice 62. |          |
| Element Name               | Element Value                                   | Comments |
| iei                        | '01111101'B                                     |          |
| iel                        | '02'O                                           |          |
| extb3                      | '1'B                                            |          |
| cs                         | '00'B                                           |          |
| in                         | '100'B                                          |          |
| pmp                        | '01'B                                           |          |
| extb4                      | '?'B                                            |          |
| hlci                       | '0000100'B                                      |          |
| extb4a                     | *                                               |          |
| ehlci                      | *                                               |          |
| <b>Detailed Comments:</b>  |                                                 |          |





| Structured Type Constraint |                        |          |
|----------------------------|------------------------|----------|
| <b>Constraint Name:</b>    | IaRestOct_04           |          |
| <b>Structured Type:</b>    | IARESTOCT              |          |
| <b>Derivation Path:</b>    |                        |          |
| <b>Comments:</b>           | used in TC_26_6_13_10. |          |
| Element Name               | Element Value          | Comments |
| iei                        | OMIT                   |          |
| iaroct1                    | OMIT                   |          |
| iaroct2                    | IaRestOct2_02          |          |
| <b>Detailed Comments:</b>  |                        |          |

| Structured Type Constraint |                           |          |
|----------------------------|---------------------------|----------|
| <b>Constraint Name:</b>    | IaRestOct_05              |          |
| <b>Structured Type:</b>    | IARESTOCT                 |          |
| <b>Derivation Path:</b>    |                           |          |
| <b>Comments:</b>           |                           |          |
| Element Name               | Element Value             | Comments |
| iei                        | OMIT                      |          |
| iaroct1                    | '1A4C6B8EAF37B21A2D5B65'O |          |
| iaroct2                    | OMIT                      |          |
| <b>Detailed Comments:</b>  |                           |          |

| Structured Type Constraint |               |          |
|----------------------------|---------------|----------|
| <b>Constraint Name:</b>    | IaRestOct_06  |          |
| <b>Structured Type:</b>    | IARESTOCT     |          |
| <b>Derivation Path:</b>    |               |          |
| <b>Comments:</b>           |               |          |
| Element Name               | Element Value | Comments |
| iei                        | OMIT          |          |
| iaroct1                    | '2B2B2B'O     |          |
| iaroct2                    | OMIT          |          |
| <b>Detailed Comments:</b>  |               |          |

| Structured Type Constraint |                   |          |
|----------------------------|-------------------|----------|
| <b>Constraint Name:</b>    | IaRestOct_08      |          |
| <b>Structured Type:</b>    | IARESTOCT         |          |
| <b>Derivation Path:</b>    |                   |          |
| <b>Comments:</b>           |                   |          |
| Element Name               | Element Value     | Comments |
| iei                        | OMIT              |          |
| iaroct1                    | '2B2B2B2B2B2B2B'O |          |
| iaroct2                    | OMIT              |          |
| <b>Detailed Comments:</b>  |                   |          |

| Structured Type Constraint            |                            |          |
|---------------------------------------|----------------------------|----------|
| <b>Constraint Name:</b> laRestOct2_01 |                            |          |
| <b>Structured Type:</b> IARESTOCT2    |                            |          |
| <b>Derivation Path:</b>               |                            |          |
| <b>Comments:</b>                      |                            |          |
| Element Name                          | Element Value              | Comments |
| p                                     | '10'B                      |          |
| frqparalen                            | '000100'B                  |          |
| spbt1                                 | '00'B                      |          |
| maio                                  | INT_TO_BIT(TSPX_Maio29, 6) |          |
| ma                                    | TSPX_Ma29                  |          |
| spbt2                                 | OMIT                       |          |
| <b>Detailed Comments:</b>             |                            |          |

| Structured Type Constraint            |                            |          |
|---------------------------------------|----------------------------|----------|
| <b>Constraint Name:</b> laRestOct2_02 |                            |          |
| <b>Structured Type:</b> IARESTOCT2    |                            |          |
| <b>Derivation Path:</b>               |                            |          |
| <b>Comments:</b>                      |                            |          |
| Element Name                          | Element Value              | Comments |
| p                                     | '10'B                      |          |
| frqparalen                            | '000100'B                  |          |
| spbt1                                 | '00'B                      |          |
| maio                                  | INT_TO_BIT(TSPX_Maio31, 6) |          |
| ma                                    | TSPX_Ma31                  |          |
| spbt2                                 | OMIT                       |          |
| <b>Detailed Comments:</b>             |                            |          |

| Structured Type Constraint                              |               |          |
|---------------------------------------------------------|---------------|----------|
| <b>Constraint Name:</b> KeyPad_01(character: IA5String) |               |          |
| <b>Structured Type:</b> KPF                             |               |          |
| <b>Derivation Path:</b>                                 |               |          |
| <b>Comments:</b>                                        |               |          |
| Element Name                                            | Element Value | Comments |
| iei                                                     | '00101100'B   |          |
| extb                                                    | '0'B          |          |
| kpf_info                                                | character     |          |
| <b>Detailed Comments:</b>                               |               |          |

| Structured Type Constraint        |               |          |
|-----------------------------------|---------------|----------|
| <b>Constraint Name:</b> KeyPad_02 |               |          |
| <b>Structured Type:</b> KPF       |               |          |
| <b>Derivation Path:</b>           |               |          |
| <b>Comments:</b>                  |               |          |
| Element Name                      | Element Value | Comments |
| iei                               | '00101100'B   |          |
| extb                              | '0'B          |          |
| kpf_info                          | ?             |          |
| <b>Detailed Comments:</b>         |               |          |

| Structured Type Constraint |                                                                                        |          |
|----------------------------|----------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Llcmp_AnyOrOmit                                                                        |          |
| <b>Structured Type:</b>    | LLCMP                                                                                  |          |
| <b>Derivation Path:</b>    |                                                                                        |          |
| <b>Comments:</b>           | High Layer Compatibility IE which is not applicable for a specific service (empty IE). |          |
| Element Name               | Element Value                                                                          | Comments |
| iei                        | '01111100'B IF_PRESENT                                                                 |          |
| iel                        | *                                                                                      |          |
| extb3                      | *                                                                                      |          |
| cs                         | *                                                                                      |          |
| itc                        | *                                                                                      |          |
| extb3a                     | *                                                                                      |          |
| negind                     | *                                                                                      |          |
| spb3a                      | *                                                                                      |          |
| extb4                      | *                                                                                      |          |
| tm                         | *                                                                                      |          |
| itr                        | *                                                                                      |          |
| extb4a                     | *                                                                                      |          |
| strc                       | *                                                                                      |          |
| config                     | *                                                                                      |          |
| est                        | *                                                                                      |          |
| extb4b                     | *                                                                                      |          |
| sym                        | *                                                                                      |          |
| itrdo                      | *                                                                                      |          |
| extb5                      | *                                                                                      |          |
| l1id                       | *                                                                                      |          |
| uil1                       | *                                                                                      |          |
| extb5a                     | *                                                                                      |          |
| sb                         | *                                                                                      |          |
| neg                        | *                                                                                      |          |
| ur                         | *                                                                                      |          |
| extb5b1                    | *                                                                                      |          |
| ir                         | *                                                                                      |          |
| nictx                      | *                                                                                      |          |
| nicrx                      | *                                                                                      |          |
| fctx                       | *                                                                                      |          |
| fcrx                       | *                                                                                      |          |
| spb5b1                     | *                                                                                      |          |
| extb5b2                    | *                                                                                      |          |
| hdrb                       | *                                                                                      |          |
| mfs                        | *                                                                                      |          |
| mode                       | *                                                                                      |          |
| llineg                     | *                                                                                      |          |
| ass                        | *                                                                                      |          |
| ibob                       | *                                                                                      |          |
| spb5b2                     | *                                                                                      |          |
| extb5c                     | *                                                                                      |          |
| nsb                        | *                                                                                      |          |
| ndb                        | *                                                                                      |          |
| pi                         | *                                                                                      |          |
| extb5d                     | *                                                                                      |          |
| dplxm                      | *                                                                                      |          |
| modemt                     | *                                                                                      |          |
| extb6                      | *                                                                                      |          |
| l2id                       | *                                                                                      |          |
| uil2                       | *                                                                                      |          |
| extb6a                     | *                                                                                      |          |
| ol2pi                      | *                                                                                      |          |
| extb7                      | *                                                                                      |          |
| l3id                       | *                                                                                      |          |
| uil3                       | *                                                                                      |          |
| extb7a                     | *                                                                                      |          |
| ol3pi                      | *                                                                                      |          |
| <b>Detailed Comments:</b>  |                                                                                        |          |



| Structured Type Constraint |                                                                                        |          |
|----------------------------|----------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Llcmp_NotApplicable                                                                    |          |
| <b>Structured Type:</b>    | LLCMP                                                                                  |          |
| <b>Derivation Path:</b>    |                                                                                        |          |
| <b>Comments:</b>           | High Layer Compatibility IE which is not applicable for a specific service (empty IE). |          |
| Element Name               | Element Value                                                                          | Comments |
| iei                        | '01111100'B                                                                            |          |
| iel                        | '00'O                                                                                  |          |
| extb3                      | OMIT                                                                                   |          |
| cs                         | OMIT                                                                                   |          |
| itc                        | OMIT                                                                                   |          |
| extb3a                     | OMIT                                                                                   |          |
| negind                     | OMIT                                                                                   |          |
| spb3a                      | OMIT                                                                                   |          |
| extb4                      | OMIT                                                                                   |          |
| tm                         | OMIT                                                                                   |          |
| itr                        | OMIT                                                                                   |          |
| extb4a                     | OMIT                                                                                   |          |
| strc                       | OMIT                                                                                   |          |
| config                     | OMIT                                                                                   |          |
| est                        | OMIT                                                                                   |          |
| extb4b                     | OMIT                                                                                   |          |
| sym                        | OMIT                                                                                   |          |
| itrdo                      | OMIT                                                                                   |          |
| extb5                      | OMIT                                                                                   |          |
| l1id                       | OMIT                                                                                   |          |
| uil1                       | OMIT                                                                                   |          |
| extb5a                     | OMIT                                                                                   |          |
| sb                         | OMIT                                                                                   |          |
| neg                        | OMIT                                                                                   |          |
| ur                         | OMIT                                                                                   |          |
| extb5b1                    | OMIT                                                                                   |          |
| ir                         | OMIT                                                                                   |          |
| nictx                      | OMIT                                                                                   |          |
| nicrx                      | OMIT                                                                                   |          |
| fctx                       | OMIT                                                                                   |          |
| fcrx                       | OMIT                                                                                   |          |
| spb5b1                     | OMIT                                                                                   |          |
| extb5b2                    | OMIT                                                                                   |          |
| hdrb                       | OMIT                                                                                   |          |
| mfs                        | OMIT                                                                                   |          |
| mode                       | OMIT                                                                                   |          |
| llineg                     | OMIT                                                                                   |          |
| ass                        | OMIT                                                                                   |          |
| ibob                       | OMIT                                                                                   |          |
| spb5b2                     | OMIT                                                                                   |          |
| extb5c                     | OMIT                                                                                   |          |
| nsb                        | OMIT                                                                                   |          |
| ndb                        | OMIT                                                                                   |          |
| pi                         | OMIT                                                                                   |          |
| extb5d                     | OMIT                                                                                   |          |
| dplxm                      | OMIT                                                                                   |          |
| modemt                     | OMIT                                                                                   |          |
| extb6                      | OMIT                                                                                   |          |
| l2id                       | OMIT                                                                                   |          |
| uil2                       | OMIT                                                                                   |          |
| extb6a                     | OMIT                                                                                   |          |
| ol2pi                      | OMIT                                                                                   |          |
| extb7                      | OMIT                                                                                   |          |
| l3id                       | OMIT                                                                                   |          |
| uil3                       | OMIT                                                                                   |          |
| extb7a                     | OMIT                                                                                   |          |
| ol3pi                      | OMIT                                                                                   |          |
| <b>Detailed Comments:</b>  |                                                                                        |          |



| Structured Type Constraint |                                                                                                                                                                                          |          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Llcmp_BS2xOrBS4x_UDI(ur1: B_4; ir1: B_2)                                                                                                                                                 |          |
| <b>Structured Type:</b>    | LLCMP                                                                                                                                                                                    |          |
| <b>Derivation Path:</b>    |                                                                                                                                                                                          |          |
| <b>Comments:</b>           | Lower Layer Compatibility IE for a setup PDU acc to the table in clause B.2.2.1 of GSM 07.01.<br>THIS CONSTRAINT MUST BE CONSISTENT WITH THE CORRESPONDING BEARER CAPABILITY CONSTRAINT! |          |
| Element Name               | Element Value                                                                                                                                                                            | Comments |
| iei                        | '01111100'B                                                                                                                                                                              |          |
| iel                        | ('06'O, '07'O, '08'O, '09'O, '0A'O, '0B'O, '0C'O, '0D'O, '0E'O)                                                                                                                          |          |
| extb3                      | '?'B                                                                                                                                                                                     |          |
| cs                         | '00'B                                                                                                                                                                                    |          |
| itc                        | '01000'B                                                                                                                                                                                 |          |
| extb3a                     | '1'B IF_PRESENT                                                                                                                                                                          |          |
| negind                     | *                                                                                                                                                                                        |          |
| spb3a                      | '000000'B IF_PRESENT                                                                                                                                                                     |          |
| extb4                      | '?'B                                                                                                                                                                                     |          |
| tm                         | '00'B                                                                                                                                                                                    |          |
| itr                        | '10000'B                                                                                                                                                                                 |          |
| extb4a                     | *                                                                                                                                                                                        |          |
| strc                       | *                                                                                                                                                                                        |          |
| config                     | *                                                                                                                                                                                        |          |
| est                        | *                                                                                                                                                                                        |          |
| extb4b                     | '1'B IF_PRESENT                                                                                                                                                                          |          |
| sym                        | *                                                                                                                                                                                        |          |
| itrdo                      | *                                                                                                                                                                                        |          |
| extb5                      | '0'B                                                                                                                                                                                     |          |
| l1id                       | '01'B                                                                                                                                                                                    |          |
| uil1                       | '00001'B                                                                                                                                                                                 |          |
| extb5a                     | '0'B                                                                                                                                                                                     |          |
| sb                         | '1'B                                                                                                                                                                                     |          |
| neg                        | '0'B                                                                                                                                                                                     |          |
| ur                         | ur1                                                                                                                                                                                      |          |
| extb5b1                    | '0'B                                                                                                                                                                                     |          |
| ir                         | ir1                                                                                                                                                                                      |          |
| nictx                      | '?'B                                                                                                                                                                                     |          |
| nicrx                      | '?'B                                                                                                                                                                                     |          |
| fctx                       | '0'B                                                                                                                                                                                     |          |
| fcrx                       | '0'B                                                                                                                                                                                     |          |
| spb5b1                     | '0'B                                                                                                                                                                                     |          |
| extb5b2                    | OMIT                                                                                                                                                                                     |          |
| hdrb                       | OMIT                                                                                                                                                                                     |          |
| mfs                        | OMIT                                                                                                                                                                                     |          |
| mode                       | OMIT                                                                                                                                                                                     |          |
| llineg                     | OMIT                                                                                                                                                                                     |          |
| ass                        | OMIT                                                                                                                                                                                     |          |
| ibob                       | OMIT                                                                                                                                                                                     |          |
| spb5b2                     | OMIT                                                                                                                                                                                     |          |
| extb5c                     | '?'B                                                                                                                                                                                     |          |
| nsb                        | ?                                                                                                                                                                                        |          |
| ndb                        | ?                                                                                                                                                                                        |          |
| pi                         | ?                                                                                                                                                                                        |          |
| extb5d                     | '1'B IF_PRESENT                                                                                                                                                                          |          |
| dplxm                      | *                                                                                                                                                                                        |          |
| modemt                     | '?????'B IF_PRESENT                                                                                                                                                                      |          |
| extb6                      | *                                                                                                                                                                                        |          |
| l2id                       | *                                                                                                                                                                                        |          |
| uil2                       | *                                                                                                                                                                                        |          |
| extb6a                     | *                                                                                                                                                                                        |          |
| ol2pi                      | *                                                                                                                                                                                        |          |
| extb7                      | *                                                                                                                                                                                        |          |
| l3id                       | *                                                                                                                                                                                        |          |
| uil3                       | *                                                                                                                                                                                        |          |



|                           |                                                                                                                        |  |
|---------------------------|------------------------------------------------------------------------------------------------------------------------|--|
| extb7a                    | *                                                                                                                      |  |
| ol3pi                     | *                                                                                                                      |  |
| <b>Detailed Comments:</b> | used for Bearer Services 21 ... 26 Unrestricted digital information transfer capability and Bearer Services 41 ... 46. |  |

| <b>Structured Type Constraint</b> |                                                                                                                                                                                          |          |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>           | Llcmp_BS2xOrBS61aOrBS81a_3100(ur1: B_4; modem: B_6)                                                                                                                                      |          |
| <b>Structured Type:</b>           | LLCMP                                                                                                                                                                                    |          |
| <b>Derivation Path:</b>           |                                                                                                                                                                                          |          |
| <b>Comments:</b>                  | Lower Layer Compatibility IE for a setup PDU acc to the table in clause B.2.2.2 of GSM 07.01.<br>THIS CONSTRAINT MUST BE CONSISTENT WITH THE CORRESPONDING BEARER CAPABILITY CONSTRAINT! |          |
| Element Name                      | Element Value                                                                                                                                                                            | Comments |
| iei                               | '01111100'B                                                                                                                                                                              |          |
| iel                               | ('07'O, '08'O, '09'O, '0A'O, '0B'O, '0C'O, '0D'O, '0E'O)                                                                                                                                 |          |
| extb3                             | '?'B                                                                                                                                                                                     |          |
| cs                                | '00'B                                                                                                                                                                                    |          |
| itc                               | '10000'B                                                                                                                                                                                 |          |
| extb3a                            | '1'B IF_PRESENT                                                                                                                                                                          |          |
| negind                            | *                                                                                                                                                                                        |          |
| spb3a                             | '000000'B IF_PRESENT                                                                                                                                                                     |          |
| extb4                             | '?'B                                                                                                                                                                                     |          |
| tm                                | '00'B                                                                                                                                                                                    |          |
| itr                               | '10000'B                                                                                                                                                                                 |          |
| extb4a                            | *                                                                                                                                                                                        |          |
| strc                              | *                                                                                                                                                                                        |          |
| config                            | *                                                                                                                                                                                        |          |
| est                               | *                                                                                                                                                                                        |          |
| extb4b                            | '1'B IF_PRESENT                                                                                                                                                                          |          |
| sym                               | *                                                                                                                                                                                        |          |
| itrdo                             | *                                                                                                                                                                                        |          |
| extb5                             | '0'B                                                                                                                                                                                     |          |
| l1id                              | '01'B                                                                                                                                                                                    |          |
| uil1                              | '00011'B                                                                                                                                                                                 |          |
| extb5a                            | *                                                                                                                                                                                        |          |
| sb                                | *                                                                                                                                                                                        |          |
| neg                               | *                                                                                                                                                                                        |          |
| ur                                | *                                                                                                                                                                                        |          |
| extb5b1                           | *                                                                                                                                                                                        |          |
| ir                                | *                                                                                                                                                                                        |          |
| nictx                             | *                                                                                                                                                                                        |          |
| nicrx                             | *                                                                                                                                                                                        |          |
| fctx                              | *                                                                                                                                                                                        |          |
| fcrx                              | *                                                                                                                                                                                        |          |
| spb5b1                            | *                                                                                                                                                                                        |          |
| extb5b2                           | OMIT                                                                                                                                                                                     |          |
| hdrb                              | OMIT                                                                                                                                                                                     |          |
| mfs                               | OMIT                                                                                                                                                                                     |          |
| mode                              | OMIT                                                                                                                                                                                     |          |
| llineg                            | OMIT                                                                                                                                                                                     |          |
| ass                               | OMIT                                                                                                                                                                                     |          |
| ibob                              | OMIT                                                                                                                                                                                     |          |
| spb5b2                            | OMIT                                                                                                                                                                                     |          |
| extb5c                            | *                                                                                                                                                                                        |          |
| nsb                               | ?                                                                                                                                                                                        |          |
| ndb                               | ?                                                                                                                                                                                        |          |
| pi                                | ?                                                                                                                                                                                        |          |
| extb5d                            | '1'B IF_PRESENT                                                                                                                                                                          |          |
| dplxm                             | *                                                                                                                                                                                        |          |
| modemt                            | modem IF_PRESENT                                                                                                                                                                         |          |
| extb6                             | *                                                                                                                                                                                        |          |
| l2id                              | *                                                                                                                                                                                        |          |
| uil2                              | *                                                                                                                                                                                        |          |
| extb6a                            | *                                                                                                                                                                                        |          |
| ol2pi                             | *                                                                                                                                                                                        |          |
| extb7                             | *                                                                                                                                                                                        |          |
| l3id                              | *                                                                                                                                                                                        |          |
| uil3                              | *                                                                                                                                                                                        |          |

|                           |   |  |
|---------------------------|---|--|
| extb7a                    | * |  |
| ol3pi                     | * |  |
| <b>Detailed Comments:</b> |   |  |

| Structured Type Constraint |                                                                                                                                                                                          |          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Llcmp_BS3x_UDI(uilayer1: B_5; ur1: B_4; ir1: B_2)                                                                                                                                        |          |
| <b>Structured Type:</b>    | LLCMP                                                                                                                                                                                    |          |
| <b>Derivation Path:</b>    |                                                                                                                                                                                          |          |
| <b>Comments:</b>           | Lower Layer Compatibility IE for a setup PDU acc to the table in clause B.2.3.1 of GSM 07.01.<br>THIS CONSTRAINT MUST BE CONSISTENT WITH THE CORRESPONDING BEARER CAPABILITY CONSTRAINT! |          |
| Element Name               | Element Value                                                                                                                                                                            | Comments |
| iei                        | '01111100'B                                                                                                                                                                              |          |
| iel                        | ('05'O, '07'O, '08'O, '09'O, '0A'O, '0B'O, '0C'O, '0D'O, '0E'O)                                                                                                                          |          |
| extb3                      | '?'B                                                                                                                                                                                     |          |
| cs                         | '00'B                                                                                                                                                                                    |          |
| itc                        | '01000'B                                                                                                                                                                                 |          |
| extb3a                     | '1'B IF_PRESENT                                                                                                                                                                          |          |
| negind                     | *                                                                                                                                                                                        |          |
| spb3a                      | '000000'B IF_PRESENT                                                                                                                                                                     |          |
| extb4                      | '?'B                                                                                                                                                                                     |          |
| tm                         | '00'B                                                                                                                                                                                    |          |
| itr                        | '10000'B                                                                                                                                                                                 |          |
| extb4a                     | *                                                                                                                                                                                        |          |
| strc                       | *                                                                                                                                                                                        |          |
| config                     | *                                                                                                                                                                                        |          |
| est                        | *                                                                                                                                                                                        |          |
| extb4b                     | '1'B IF_PRESENT                                                                                                                                                                          |          |
| sym                        | *                                                                                                                                                                                        |          |
| itrdo                      | *                                                                                                                                                                                        |          |
| extb5                      | '0'B                                                                                                                                                                                     |          |
| l1id                       | '01'B                                                                                                                                                                                    |          |
| uil1                       | uilayer1                                                                                                                                                                                 |          |
| extb5a                     | '0'B                                                                                                                                                                                     |          |
| sb                         | '0'B                                                                                                                                                                                     |          |
| neg                        | '0'B                                                                                                                                                                                     |          |
| ur                         | ur1                                                                                                                                                                                      |          |
| extb5b1                    | '?'B                                                                                                                                                                                     |          |
| ir                         | ir1                                                                                                                                                                                      |          |
| nictx                      | '?'B                                                                                                                                                                                     |          |
| nicrx                      | '?'B                                                                                                                                                                                     |          |
| fctx                       | '?'B                                                                                                                                                                                     |          |
| fcrx                       | '?'B                                                                                                                                                                                     |          |
| spb5b1                     | '0'B                                                                                                                                                                                     |          |
| extb5b2                    | OMIT                                                                                                                                                                                     |          |
| hdrb                       | OMIT                                                                                                                                                                                     |          |
| mfs                        | OMIT                                                                                                                                                                                     |          |
| mode                       | OMIT                                                                                                                                                                                     |          |
| llineg                     | OMIT                                                                                                                                                                                     |          |
| ass                        | OMIT                                                                                                                                                                                     |          |
| ibob                       | OMIT                                                                                                                                                                                     |          |
| spb5b2                     | OMIT                                                                                                                                                                                     |          |
| extb5c                     | '0'B IF_PRESENT                                                                                                                                                                          |          |
| nsb                        | *                                                                                                                                                                                        |          |
| ndb                        | *                                                                                                                                                                                        |          |
| pi                         | *                                                                                                                                                                                        |          |
| extb5d                     | '1'B IF_PRESENT                                                                                                                                                                          |          |
| dplxm                      | *                                                                                                                                                                                        |          |
| modemt                     | '?????'B IF_PRESENT                                                                                                                                                                      |          |
| extb6                      | *                                                                                                                                                                                        |          |
| l2id                       | '10'B IF_PRESENT                                                                                                                                                                         |          |
| uil2                       | '00110'B IF_PRESENT                                                                                                                                                                      |          |
| extb6a                     | *                                                                                                                                                                                        |          |
| ol2pi                      | *                                                                                                                                                                                        |          |
| extb7                      | *                                                                                                                                                                                        |          |
| l3id                       | '11'B IF_PRESENT                                                                                                                                                                         |          |
| uil3                       | '00110'B IF_PRESENT                                                                                                                                                                      |          |

|                           |                                                                                         |  |
|---------------------------|-----------------------------------------------------------------------------------------|--|
| extb7a                    | *                                                                                       |  |
| ol3pi                     | *                                                                                       |  |
| <b>Detailed Comments:</b> | used in Bearer Services 31 ... 34 unrestricted digital information transfer capability. |  |

| Structured Type Constraint |                                                                                                                                                                                          |          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Llcmp_BS3xOrBS61sOrBS81s_3100(modem: B_6)                                                                                                                                                |          |
| <b>Structured Type:</b>    | LLCMP                                                                                                                                                                                    |          |
| <b>Derivation Path:</b>    |                                                                                                                                                                                          |          |
| <b>Comments:</b>           | Lower Layer Compatibility IE for a setup PDU acc to the table in clause B.2.3.2 of GSM 07.01.<br>THIS CONSTRAINT MUST BE CONSISTENT WITH THE CORRESPONDING BEARER CAPABILITY CONSTRAINT! |          |
| Element Name               | Element Value                                                                                                                                                                            | Comments |
| iei                        | '01111100'B                                                                                                                                                                              |          |
| iel                        | ('02'O, '05'O, '07'O, '08'O, '09'O, '0A'O, '0B'O, '0C'O, '0D'O, '0E'O)                                                                                                                   |          |
| extb3                      | '?'B                                                                                                                                                                                     |          |
| cs                         | '00'B                                                                                                                                                                                    |          |
| itc                        | '10000'B                                                                                                                                                                                 |          |
| extb3a                     | '1'B IF_PRESENT                                                                                                                                                                          |          |
| negind                     | *                                                                                                                                                                                        |          |
| spb3a                      | '000000'B IF_PRESENT                                                                                                                                                                     |          |
| extb4                      | '?'B                                                                                                                                                                                     |          |
| tm                         | '00'B                                                                                                                                                                                    |          |
| itr                        | '10000'B                                                                                                                                                                                 |          |
| extb4a                     | *                                                                                                                                                                                        |          |
| strc                       | *                                                                                                                                                                                        |          |
| config                     | *                                                                                                                                                                                        |          |
| est                        | *                                                                                                                                                                                        |          |
| extb4b                     | '1'B IF_PRESENT                                                                                                                                                                          |          |
| sym                        | *                                                                                                                                                                                        |          |
| itrdo                      | *                                                                                                                                                                                        |          |
| extb5                      | '?'B                                                                                                                                                                                     |          |
| l1id                       | '01'B                                                                                                                                                                                    |          |
| uil1                       | '00011'B                                                                                                                                                                                 |          |
| extb5a                     | '0'B IF_PRESENT                                                                                                                                                                          |          |
| sb                         | *                                                                                                                                                                                        |          |
| neg                        | *                                                                                                                                                                                        |          |
| ur                         | *                                                                                                                                                                                        |          |
| extb5b1                    | *                                                                                                                                                                                        |          |
| ir                         | *                                                                                                                                                                                        |          |
| nictx                      | *                                                                                                                                                                                        |          |
| nicrx                      | *                                                                                                                                                                                        |          |
| fctx                       | *                                                                                                                                                                                        |          |
| fcrx                       | *                                                                                                                                                                                        |          |
| spb5b1                     | *                                                                                                                                                                                        |          |
| extb5b2                    | OMIT                                                                                                                                                                                     |          |
| hdrb                       | OMIT                                                                                                                                                                                     |          |
| mfs                        | OMIT                                                                                                                                                                                     |          |
| mode                       | OMIT                                                                                                                                                                                     |          |
| llineg                     | OMIT                                                                                                                                                                                     |          |
| ass                        | OMIT                                                                                                                                                                                     |          |
| ibob                       | OMIT                                                                                                                                                                                     |          |
| spb5b2                     | OMIT                                                                                                                                                                                     |          |
| extb5c                     | '0'B IF_PRESENT                                                                                                                                                                          |          |
| nsb                        | *                                                                                                                                                                                        |          |
| ndb                        | *                                                                                                                                                                                        |          |
| pi                         | *                                                                                                                                                                                        |          |
| extb5d                     | '1'B IF_PRESENT                                                                                                                                                                          |          |
| dplxm                      | *                                                                                                                                                                                        |          |
| modemt                     | modem IF_PRESENT                                                                                                                                                                         |          |
| extb6                      | *                                                                                                                                                                                        |          |
| l2id                       | '10'B IF_PRESENT                                                                                                                                                                         |          |
| uil2                       | '00110'B IF_PRESENT                                                                                                                                                                      |          |
| extb6a                     | *                                                                                                                                                                                        |          |
| ol2pi                      | *                                                                                                                                                                                        |          |
| extb7                      | *                                                                                                                                                                                        |          |
| l3id                       | '11'B IF_PRESENT                                                                                                                                                                         |          |
| uil3                       | '00110'B IF_PRESENT                                                                                                                                                                      |          |

|                           |                                                                                                                                                                                                                                                   |  |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| extb7a                    | *                                                                                                                                                                                                                                                 |  |
| ol3pi                     | *                                                                                                                                                                                                                                                 |  |
| <b>Detailed Comments:</b> | used in Bearer Services 31 ... 34 3.1kHz audio information transfer capability and Bearer Services 61 3.1kHz audio information transfer capability, Synchronous and Bearer Services 81 3.1kHz audio information transfer capability, Synchronous. |  |

| Structured Type Constraint |                                                                                                                                                                                        |          |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Llcmp_BS5x(ur1: B_4)                                                                                                                                                                   |          |
| <b>Structured Type:</b>    | LLCMP                                                                                                                                                                                  |          |
| <b>Derivation Path:</b>    |                                                                                                                                                                                        |          |
| <b>Comments:</b>           | Lower Layer Compatibility IE for a setup PDU acc to the table in clause B.2.5 of GSM 07.01.<br>THIS CONSTRAINT MUST BE CONSISTENT WITH THE CORRESPONDING BEARER CAPABILITY CONSTRAINT! |          |
| Element Name               | Element Value                                                                                                                                                                          | Comments |
| iei                        | '01111100'B                                                                                                                                                                            |          |
| iel                        | ('06'O, '07'O, '08'O, '09'O, '0A'O, '0B'O, '0C'O, '0D'O, '0E'O)                                                                                                                        |          |
| extb3                      | '?'B                                                                                                                                                                                   |          |
| cs                         | '00'B                                                                                                                                                                                  |          |
| itc                        | '01000'B                                                                                                                                                                               |          |
| extb3a                     | '1'B IF_PRESENT                                                                                                                                                                        |          |
| negind                     | *                                                                                                                                                                                      |          |
| spb3a                      | '000000'B IF_PRESENT                                                                                                                                                                   |          |
| extb4                      | '?'B                                                                                                                                                                                   |          |
| tm                         | '00'B                                                                                                                                                                                  |          |
| itr                        | '10000'B                                                                                                                                                                               |          |
| extb4a                     | *                                                                                                                                                                                      |          |
| strc                       | *                                                                                                                                                                                      |          |
| config                     | *                                                                                                                                                                                      |          |
| est                        | *                                                                                                                                                                                      |          |
| extb4b                     | '1'B IF_PRESENT                                                                                                                                                                        |          |
| sym                        | *                                                                                                                                                                                      |          |
| itrdo                      | *                                                                                                                                                                                      |          |
| extb5                      | '0'B                                                                                                                                                                                   |          |
| l1id                       | '01'B                                                                                                                                                                                  |          |
| uil1                       | '01001'B                                                                                                                                                                               |          |
| extb5a                     | '?'B                                                                                                                                                                                   |          |
| sb                         | '0'B                                                                                                                                                                                   |          |
| neg                        | '0'B                                                                                                                                                                                   |          |
| ur                         | ur1                                                                                                                                                                                    |          |
| extb5b1                    | *                                                                                                                                                                                      |          |
| ir                         | *                                                                                                                                                                                      |          |
| nictx                      | *                                                                                                                                                                                      |          |
| nicrx                      | *                                                                                                                                                                                      |          |
| fctx                       | *                                                                                                                                                                                      |          |
| fcrx                       | *                                                                                                                                                                                      |          |
| spb5b1                     | *                                                                                                                                                                                      |          |
| extb5b2                    | OMIT                                                                                                                                                                                   |          |
| hdrb                       | OMIT                                                                                                                                                                                   |          |
| mfs                        | OMIT                                                                                                                                                                                   |          |
| mode                       | OMIT                                                                                                                                                                                   |          |
| llineg                     | OMIT                                                                                                                                                                                   |          |
| ass                        | OMIT                                                                                                                                                                                   |          |
| ibob                       | OMIT                                                                                                                                                                                   |          |
| spb5b2                     | OMIT                                                                                                                                                                                   |          |
| extb5c                     | *                                                                                                                                                                                      |          |
| nsb                        | *                                                                                                                                                                                      |          |
| ndb                        | *                                                                                                                                                                                      |          |
| pi                         | *                                                                                                                                                                                      |          |
| extb5d                     | *                                                                                                                                                                                      |          |
| dplxm                      | *                                                                                                                                                                                      |          |
| modemt                     | *                                                                                                                                                                                      |          |
| extb6                      | ?                                                                                                                                                                                      |          |
| l2id                       | '10'B                                                                                                                                                                                  |          |
| uil2                       | '00110'B                                                                                                                                                                               |          |
| extb6a                     | *                                                                                                                                                                                      |          |
| ol2pi                      | *                                                                                                                                                                                      |          |
| extb7                      | ?                                                                                                                                                                                      |          |
| l3id                       | '11'B                                                                                                                                                                                  |          |
| uil3                       | '00110'B                                                                                                                                                                               |          |



|                                                              |   |  |
|--------------------------------------------------------------|---|--|
| extb7a                                                       | * |  |
| ol3pi                                                        | * |  |
| <b>Detailed Comments:</b> used in Bearer Services 51 ... 53. |   |  |

| Structured Type Constraint |                    |          |
|----------------------------|--------------------|----------|
| <b>Constraint Name:</b>    | LocAreald_omit     |          |
| <b>Structured Type:</b>    | LAI                |          |
| <b>Derivation Path:</b>    |                    |          |
| <b>Comments:</b>           | Omitted constraint |          |
| Element Name               | Element Value      | Comments |
| iei                        | *                  |          |
| mcc                        | *                  |          |
| mnc                        | *                  |          |
| lac                        | *                  |          |
| <b>Detailed Comments:</b>  |                    |          |

| Structured Type Constraint |                                       |          |
|----------------------------|---------------------------------------|----------|
| <b>Constraint Name:</b>    | LocAreald(mcc, mnc, lac: OCTETSTRING) |          |
| <b>Structured Type:</b>    | LAI                                   |          |
| <b>Derivation Path:</b>    |                                       |          |
| <b>Comments:</b>           | Cell A default value for L3 test      |          |
| Element Name               | Element Value                         | Comments |
| iei                        | OMIT                                  |          |
| mcc                        | mcc                                   |          |
| mnc                        | mnc                                   |          |
| lac                        | lac                                   |          |
| <b>Detailed Comments:</b>  |                                       |          |

| Structured Type Constraint |                                          |          |
|----------------------------|------------------------------------------|----------|
| <b>Constraint Name:</b>    | LocArealdiei(mcc, mnc, lac: OCTETSTRING) |          |
| <b>Structured Type:</b>    | LAI                                      |          |
| <b>Derivation Path:</b>    |                                          |          |
| <b>Comments:</b>           | Cell A default value for L3 test         |          |
| Element Name               | Element Value                            | Comments |
| iei                        | '00010011'B                              |          |
| mcc                        | mcc                                      |          |
| mnc                        | mnc                                      |          |
| lac                        | lac                                      |          |
| <b>Detailed Comments:</b>  |                                          |          |

| Structured Type Constraint |                        |          |
|----------------------------|------------------------|----------|
| <b>Constraint Name:</b>    | LocUpType(locup: B_2)  |          |
| <b>Structured Type:</b>    | LUT                    |          |
| <b>Derivation Path:</b>    |                        |          |
| <b>Comments:</b>           | location updating type |          |
| Element Name               | Element Value          | Comments |
| foreq                      | '0'B                   |          |
| sprb                       | '0'B                   |          |
| lut                        | locup                  |          |
| <b>Detailed Comments:</b>  |                        |          |

| Structured Type Constraint |                                                                         |          |
|----------------------------|-------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ma1_g01                                                                 |          |
| <b>Structured Type:</b>    | MA                                                                      |          |
| <b>Derivation Path:</b>    |                                                                         |          |
| <b>Comments:</b>           | Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 64 ARFCHs |          |
| Element Name               | Element Value                                                           | Comments |
| iei                        | OMIT                                                                    |          |
| 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 |                                                                         |          |
|----------------------------|-------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ma1_g02                                                                 |          |
| <b>Structured Type:</b>    | MA                                                                      |          |
| <b>Derivation Path:</b>    |                                                                         |          |
| <b>Comments:</b>           | Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 64 ARFCHs |          |
| Element Name               | Element Value                                                           | Comments |
| iei                        | OMIT                                                                    |          |
| 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 |                                                                         |          |
|----------------------------|-------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ma1_g03                                                                 |          |
| <b>Structured Type:</b>    | MA                                                                      |          |
| <b>Derivation Path:</b>    |                                                                         |          |
| <b>Comments:</b>           | Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 64 ARFCHs |          |
| Element Name               | Element Value                                                           | Comments |
| iei                        | OMIT                                                                    |          |
| 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 |                                                                         |          |
|----------------------------|-------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ma1_g04                                                                 |          |
| <b>Structured Type:</b>    | MA                                                                      |          |
| <b>Derivation Path:</b>    |                                                                         |          |
| <b>Comments:</b>           | Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 64 ARFCHs |          |
| Element Name               | Element Value                                                           | Comments |
| iei                        | OMIT                                                                    |          |
| 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 |                                                                         |          |
|----------------------------|-------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ma1_g05                                                                 |          |
| <b>Structured Type:</b>    | MA                                                                      |          |
| <b>Derivation Path:</b>    |                                                                         |          |
| <b>Comments:</b>           | Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 64 ARFCHs |          |
| Element Name               | Element Value                                                           | Comments |
| iei                        | OMIT                                                                    |          |
| 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 |                                                                         |          |
|----------------------------|-------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ma1_g06                                                                 |          |
| <b>Structured Type:</b>    | MA                                                                      |          |
| <b>Derivation Path:</b>    |                                                                         |          |
| <b>Comments:</b>           | Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 64 ARFCHs |          |
| Element Name               | Element Value                                                           | Comments |
| iei                        | OMIT                                                                    |          |
| 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 |                                                                         |          |
|----------------------------|-------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ma1_g07                                                                 |          |
| <b>Structured Type:</b>    | MA                                                                      |          |
| <b>Derivation Path:</b>    |                                                                         |          |
| <b>Comments:</b>           | Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 64 ARFCHs |          |
| Element Name               | Element Value                                                           | Comments |
| iei                        | OMIT                                                                    |          |
| 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 |                                                                         |          |
|----------------------------|-------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ma1_g08                                                                 |          |
| <b>Structured Type:</b>    | MA                                                                      |          |
| <b>Derivation Path:</b>    |                                                                         |          |
| <b>Comments:</b>           | Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 64 ARFCHs |          |
| Element Name               | Element Value                                                           | Comments |
| iei                        | OMIT                                                                    |          |
| 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 |                                                                         |          |
|----------------------------|-------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ma1_g09                                                                 |          |
| <b>Structured Type:</b>    | MA                                                                      |          |
| <b>Derivation Path:</b>    |                                                                         |          |
| <b>Comments:</b>           | Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 64 ARFCHs |          |
| Element Name               | Element Value                                                           | Comments |
| iei                        | OMIT                                                                    |          |
| 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 |                                                                         |          |
|----------------------------|-------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ma2_g01                                                                 |          |
| <b>Structured Type:</b>    | MA                                                                      |          |
| <b>Derivation Path:</b>    |                                                                         |          |
| <b>Comments:</b>           | Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 30 ARFCHs |          |
| Element Name               | Element Value                                                           | Comments |
| iei                        | OMIT                                                                    |          |
| iel                        | '04'O                                                                   |          |
| mac_8n                     | '00111111'B                                                             |          |
| mac_7n                     | '11111100'B                                                             |          |
| mac_6n                     | '00000000'B                                                             |          |
| mac_5n                     | '00000000'B                                                             |          |
| mac_4n                     | OMIT                                                                    |          |
| mac_3n                     | OMIT                                                                    |          |
| mac_2n                     | OMIT                                                                    |          |
| mac_1n                     | OMIT                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                         |          |

| Structured Type Constraint |                                                                         |          |
|----------------------------|-------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ma2_g02                                                                 |          |
| <b>Structured Type:</b>    | MA                                                                      |          |
| <b>Derivation Path:</b>    |                                                                         |          |
| <b>Comments:</b>           | Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 30 ARFCHs |          |
| Element Name               | Element Value                                                           | Comments |
| iei                        | OMIT                                                                    |          |
| iel                        | '04'O                                                                   |          |
| mac_8n                     | '00000000'B                                                             |          |
| mac_7n                     | '00000000'B                                                             |          |
| mac_6n                     | '00000000'B                                                             |          |
| mac_5n                     | '00001111'B                                                             |          |
| mac_4n                     | OMIT                                                                    |          |
| mac_3n                     | OMIT                                                                    |          |
| mac_2n                     | OMIT                                                                    |          |
| mac_1n                     | OMIT                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                         |          |

| Structured Type Constraint |                                                                         |          |
|----------------------------|-------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ma2_g03                                                                 |          |
| <b>Structured Type:</b>    | MA                                                                      |          |
| <b>Derivation Path:</b>    |                                                                         |          |
| <b>Comments:</b>           | Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 30 ARFCHs |          |
| Element Name               | Element Value                                                           | Comments |
| iei                        | OMIT                                                                    |          |
| iel                        | '04'O                                                                   |          |
| mac_8n                     | '00000000'B                                                             |          |
| mac_7n                     | '00011111'B                                                             |          |
| mac_6n                     | '00000000'B                                                             |          |
| mac_5n                     | '00000000'B                                                             |          |
| mac_4n                     | OMIT                                                                    |          |
| mac_3n                     | OMIT                                                                    |          |
| mac_2n                     | OMIT                                                                    |          |
| mac_1n                     | OMIT                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                         |          |

| Structured Type Constraint |                                                                         |          |
|----------------------------|-------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ma2_g04                                                                 |          |
| <b>Structured Type:</b>    | MA                                                                      |          |
| <b>Derivation Path:</b>    |                                                                         |          |
| <b>Comments:</b>           | Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 30 ARFCHs |          |
| Element Name               | Element Value                                                           | Comments |
| iei                        | OMIT                                                                    |          |
| iel                        | '04'O                                                                   |          |
| mac_8n                     | '00000000'B                                                             |          |
| mac_7n                     | '00001010'B                                                             |          |
| mac_6n                     | '10101010'B                                                             |          |
| mac_5n                     | '00000000'B                                                             |          |
| mac_4n                     | OMIT                                                                    |          |
| mac_3n                     | OMIT                                                                    |          |
| mac_2n                     | OMIT                                                                    |          |
| mac_1n                     | OMIT                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                         |          |

| Structured Type Constraint |                                                                         |          |
|----------------------------|-------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ma2_g05                                                                 |          |
| <b>Structured Type:</b>    | MA                                                                      |          |
| <b>Derivation Path:</b>    |                                                                         |          |
| <b>Comments:</b>           | Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 30 ARFCHs |          |
| Element Name               | Element Value                                                           | Comments |
| iei                        | OMIT                                                                    |          |
| iel                        | '04'O                                                                   |          |
| mac_8n                     | '00010101'B                                                             |          |
| mac_7n                     | '01000000'B                                                             |          |
| mac_6n                     | '00000000'B                                                             |          |
| mac_5n                     | '10101000'B                                                             |          |
| mac_4n                     | OMIT                                                                    |          |
| mac_3n                     | OMIT                                                                    |          |
| mac_2n                     | OMIT                                                                    |          |
| mac_1n                     | OMIT                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                         |          |

| Structured Type Constraint |                                                                         |          |
|----------------------------|-------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ma2_g06                                                                 |          |
| <b>Structured Type:</b>    | MA                                                                      |          |
| <b>Derivation Path:</b>    |                                                                         |          |
| <b>Comments:</b>           | Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 30 ARFCHs |          |
| Element Name               | Element Value                                                           | Comments |
| iei                        | OMIT                                                                    |          |
| iel                        | '04'O                                                                   |          |
| mac_8n                     | '00011010'B                                                             |          |
| mac_7n                     | '10100000'B                                                             |          |
| mac_6n                     | '00000000'B                                                             |          |
| mac_5n                     | '00011100'B                                                             |          |
| mac_4n                     | OMIT                                                                    |          |
| mac_3n                     | OMIT                                                                    |          |
| mac_2n                     | OMIT                                                                    |          |
| mac_1n                     | OMIT                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                         |          |

| Structured Type Constraint |                                                                         |          |
|----------------------------|-------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ma2_g07                                                                 |          |
| <b>Structured Type:</b>    | MA                                                                      |          |
| <b>Derivation Path:</b>    |                                                                         |          |
| <b>Comments:</b>           | Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 30 ARFCHs |          |
| Element Name               | Element Value                                                           | Comments |
| iei                        | OMIT                                                                    |          |
| iel                        | '04'O                                                                   |          |
| mac_8n                     | '00011100'B                                                             |          |
| mac_7n                     | '00000011'B                                                             |          |
| mac_6n                     | '10011100'B                                                             |          |
| mac_5n                     | '00000000'B                                                             |          |
| mac_4n                     | OMIT                                                                    |          |
| mac_3n                     | OMIT                                                                    |          |
| mac_2n                     | OMIT                                                                    |          |
| mac_1n                     | OMIT                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                         |          |

| Structured Type Constraint |                                                                         |          |
|----------------------------|-------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ma2_g08                                                                 |          |
| <b>Structured Type:</b>    | MA                                                                      |          |
| <b>Derivation Path:</b>    |                                                                         |          |
| <b>Comments:</b>           | Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 30 ARFCHs |          |
| Element Name               | Element Value                                                           | Comments |
| iei                        | OMIT                                                                    |          |
| iel                        | '04'O                                                                   |          |
| mac_8n                     | '00000001'B                                                             |          |
| mac_7n                     | '00100100'B                                                             |          |
| mac_6n                     | '10010000'B                                                             |          |
| mac_5n                     | '00011111'B                                                             |          |
| mac_4n                     | OMIT                                                                    |          |
| mac_3n                     | OMIT                                                                    |          |
| mac_2n                     | OMIT                                                                    |          |
| mac_1n                     | OMIT                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                         |          |

| Structured Type Constraint |                                                                         |          |
|----------------------------|-------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ma2_g09                                                                 |          |
| <b>Structured Type:</b>    | MA                                                                      |          |
| <b>Derivation Path:</b>    |                                                                         |          |
| <b>Comments:</b>           | Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 30 ARFCHs |          |
| Element Name               | Element Value                                                           | Comments |
| iei                        | OMIT                                                                    |          |
| iel                        | '04'O                                                                   |          |
| mac_8n                     | '00110000'B                                                             |          |
| mac_7n                     | '00000011'B                                                             |          |
| mac_6n                     | '11010000'B                                                             |          |
| mac_5n                     | '00001111'B                                                             |          |
| mac_4n                     | OMIT                                                                    |          |
| mac_3n                     | OMIT                                                                    |          |
| mac_2n                     | OMIT                                                                    |          |
| mac_1n                     | OMIT                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                         |          |

| Structured Type Constraint |                                                                         |          |
|----------------------------|-------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ma3_g01                                                                 |          |
| <b>Structured Type:</b>    | MA                                                                      |          |
| <b>Derivation Path:</b>    |                                                                         |          |
| <b>Comments:</b>           | Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 12 ARFCHs |          |
| Element Name               | Element Value                                                           | Comments |
| iei                        | OMIT                                                                    |          |
| iel                        | '02'O                                                                   |          |
| mac_8n                     | '00001110'B                                                             |          |
| mac_7n                     | '11111111'B                                                             |          |
| mac_6n                     | OMIT                                                                    |          |
| mac_5n                     | OMIT                                                                    |          |
| mac_4n                     | OMIT                                                                    |          |
| mac_3n                     | OMIT                                                                    |          |
| mac_2n                     | OMIT                                                                    |          |
| mac_1n                     | OMIT                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                         |          |

| Structured Type Constraint |                                                                         |          |
|----------------------------|-------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ma3_g02                                                                 |          |
| <b>Structured Type:</b>    | MA                                                                      |          |
| <b>Derivation Path:</b>    |                                                                         |          |
| <b>Comments:</b>           | Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 12 ARFCHs |          |
| Element Name               | Element Value                                                           | Comments |
| iei                        | OMIT                                                                    |          |
| iel                        | '02'O                                                                   |          |
| mac_8n                     | '00000100'B                                                             |          |
| mac_7n                     | '00000011'B                                                             |          |
| mac_6n                     | OMIT                                                                    |          |
| mac_5n                     | OMIT                                                                    |          |
| mac_4n                     | OMIT                                                                    |          |
| mac_3n                     | OMIT                                                                    |          |
| mac_2n                     | OMIT                                                                    |          |
| mac_1n                     | OMIT                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                         |          |

| Structured Type Constraint |                                                                         |          |
|----------------------------|-------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ma3_g03                                                                 |          |
| <b>Structured Type:</b>    | MA                                                                      |          |
| <b>Derivation Path:</b>    |                                                                         |          |
| <b>Comments:</b>           | Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 12 ARFCHs |          |
| Element Name               | Element Value                                                           | Comments |
| iei                        | OMIT                                                                    |          |
| iel                        | '02'O                                                                   |          |
| mac_8n                     | '00001010'B                                                             |          |
| mac_7n                     | '10100000'B                                                             |          |
| mac_6n                     | OMIT                                                                    |          |
| mac_5n                     | OMIT                                                                    |          |
| mac_4n                     | OMIT                                                                    |          |
| mac_3n                     | OMIT                                                                    |          |
| mac_2n                     | OMIT                                                                    |          |
| mac_1n                     | OMIT                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                         |          |



| Structured Type Constraint                                                               |               |          |
|------------------------------------------------------------------------------------------|---------------|----------|
| <b>Constraint Name:</b> Ma3_g04                                                          |               |          |
| <b>Structured Type:</b> MA                                                               |               |          |
| <b>Derivation Path:</b>                                                                  |               |          |
| <b>Comments:</b> Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 12 ARFCHs |               |          |
| Element Name                                                                             | Element Value | Comments |
| iei                                                                                      | OMIT          |          |
| iel                                                                                      | '02'O         |          |
| mac_8n                                                                                   | '00000111'B   |          |
| mac_7n                                                                                   | '11000000'B   |          |
| mac_6n                                                                                   | OMIT          |          |
| mac_5n                                                                                   | OMIT          |          |
| mac_4n                                                                                   | OMIT          |          |
| mac_3n                                                                                   | OMIT          |          |
| mac_2n                                                                                   | OMIT          |          |
| mac_1n                                                                                   | OMIT          |          |
| <b>Detailed Comments:</b>                                                                |               |          |

| Structured Type Constraint                                                               |               |          |
|------------------------------------------------------------------------------------------|---------------|----------|
| <b>Constraint Name:</b> Ma3_g05                                                          |               |          |
| <b>Structured Type:</b> MA                                                               |               |          |
| <b>Derivation Path:</b>                                                                  |               |          |
| <b>Comments:</b> Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 12 ARFCHs |               |          |
| Element Name                                                                             | Element Value | Comments |
| iei                                                                                      | OMIT          |          |
| iel                                                                                      | '02'O         |          |
| mac_8n                                                                                   | '00001010'B   |          |
| mac_7n                                                                                   | '10010101'B   |          |
| mac_6n                                                                                   | OMIT          |          |
| mac_5n                                                                                   | OMIT          |          |
| mac_4n                                                                                   | OMIT          |          |
| mac_3n                                                                                   | OMIT          |          |
| mac_2n                                                                                   | OMIT          |          |
| mac_1n                                                                                   | OMIT          |          |
| <b>Detailed Comments:</b>                                                                |               |          |

| Structured Type Constraint                                                               |               |          |
|------------------------------------------------------------------------------------------|---------------|----------|
| <b>Constraint Name:</b> Ma3_g06                                                          |               |          |
| <b>Structured Type:</b> MA                                                               |               |          |
| <b>Derivation Path:</b>                                                                  |               |          |
| <b>Comments:</b> Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 12 ARFCHs |               |          |
| Element Name                                                                             | Element Value | Comments |
| iei                                                                                      | OMIT          |          |
| iel                                                                                      | '02'O         |          |
| mac_8n                                                                                   | '00001111'B   |          |
| mac_7n                                                                                   | '00001011'B   |          |
| mac_6n                                                                                   | OMIT          |          |
| mac_5n                                                                                   | OMIT          |          |
| mac_4n                                                                                   | OMIT          |          |
| mac_3n                                                                                   | OMIT          |          |
| mac_2n                                                                                   | OMIT          |          |
| mac_1n                                                                                   | OMIT          |          |
| <b>Detailed Comments:</b>                                                                |               |          |

| Structured Type Constraint |                                                                         |          |
|----------------------------|-------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ma3_g07                                                                 |          |
| <b>Structured Type:</b>    | MA                                                                      |          |
| <b>Derivation Path:</b>    |                                                                         |          |
| <b>Comments:</b>           | Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 12 ARFCHs |          |
| Element Name               | Element Value                                                           | Comments |
| iei                        | OMIT                                                                    |          |
| iel                        | '02'O                                                                   |          |
| mac_8n                     | '00001010'B                                                             |          |
| mac_7n                     | '11110011'B                                                             |          |
| mac_6n                     | OMIT                                                                    |          |
| mac_5n                     | OMIT                                                                    |          |
| mac_4n                     | OMIT                                                                    |          |
| mac_3n                     | OMIT                                                                    |          |
| mac_2n                     | OMIT                                                                    |          |
| mac_1n                     | OMIT                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                         |          |

| Structured Type Constraint |                                                                         |          |
|----------------------------|-------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ma3_g08                                                                 |          |
| <b>Structured Type:</b>    | MA                                                                      |          |
| <b>Derivation Path:</b>    |                                                                         |          |
| <b>Comments:</b>           | Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 12 ARFCHs |          |
| Element Name               | Element Value                                                           | Comments |
| iei                        | OMIT                                                                    |          |
| iel                        | '02'O                                                                   |          |
| mac_8n                     | '00001111'B                                                             |          |
| mac_7n                     | '00101111'B                                                             |          |
| mac_6n                     | OMIT                                                                    |          |
| mac_5n                     | OMIT                                                                    |          |
| mac_4n                     | OMIT                                                                    |          |
| mac_3n                     | OMIT                                                                    |          |
| mac_2n                     | OMIT                                                                    |          |
| mac_1n                     | OMIT                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                         |          |

| Structured Type Constraint |                                                                         |          |
|----------------------------|-------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Ma3_g09                                                                 |          |
| <b>Structured Type:</b>    | MA                                                                      |          |
| <b>Derivation Path:</b>    |                                                                         |          |
| <b>Comments:</b>           | Used in TC_26_6_6_1 for GSM and DCS, cell allocation contains 12 ARFCHs |          |
| Element Name               | Element Value                                                           | Comments |
| iei                        | OMIT                                                                    |          |
| iel                        | '02'O                                                                   |          |
| mac_8n                     | '00001111'B                                                             |          |
| mac_7n                     | '10111110'B                                                             |          |
| mac_6n                     | OMIT                                                                    |          |
| mac_5n                     | OMIT                                                                    |          |
| mac_4n                     | OMIT                                                                    |          |
| mac_3n                     | OMIT                                                                    |          |
| mac_2n                     | OMIT                                                                    |          |
| mac_1n                     | OMIT                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                         |          |

| Structured Type Constraint                           |               |          |
|------------------------------------------------------|---------------|----------|
| <b>Constraint Name:</b> Mi_01                        |               |          |
| <b>Structured Type:</b> MI                           |               |          |
| <b>Derivation Path:</b>                              |               |          |
| <b>Comments:</b> used as a comprehension required IE |               |          |
| Element Name                                         | Element Value | Comments |
| iei                                                  | '00000000'B   |          |
| iel                                                  | '01'O         |          |
| idigit_1                                             | '1110'B       |          |
| oei                                                  | '1'B          |          |
| toi                                                  | '111'B        |          |
| idigits_other                                        | OMIT          |          |
| <b>Detailed Comments:</b>                            |               |          |

| Structured Type Constraint                       |               |          |
|--------------------------------------------------|---------------|----------|
| <b>Constraint Name:</b> Mi_02                    |               |          |
| <b>Structured Type:</b> MI                       |               |          |
| <b>Derivation Path:</b>                          |               |          |
| <b>Comments:</b> used as an unknown IEI.         |               |          |
| Element Name                                     | Element Value | Comments |
| iei                                              | '10101110'B   |          |
| iel                                              | OMIT          |          |
| idigit_1                                         | OMIT          |          |
| oei                                              | OMIT          |          |
| toi                                              | OMIT          |          |
| idigits_other                                    | OMIT          |          |
| <b>Detailed Comments:</b> used in TC_26_5_6_1_1. |               |          |

| Structured Type Constraint             |               |          |
|----------------------------------------|---------------|----------|
| <b>Constraint Name:</b> Mi_05          |               |          |
| <b>Structured Type:</b> MI             |               |          |
| <b>Derivation Path:</b>                |               |          |
| <b>Comments:</b> used as an unknown IE |               |          |
| Element Name                           | Element Value | Comments |
| iei                                    | '00000010'B   |          |
| iel                                    | 'E0'O         |          |
| idigit_1                               | '1001'B       |          |
| oei                                    | '0'B          |          |
| toi                                    | '000'B        |          |
| idigits_other                          | OMIT          |          |
| <b>Detailed Comments:</b>              |               |          |

| Structured Type Constraint                       |               |          |
|--------------------------------------------------|---------------|----------|
| <b>Constraint Name:</b> Mi_06                    |               |          |
| <b>Structured Type:</b> MI                       |               |          |
| <b>Derivation Path:</b>                          |               |          |
| <b>Comments:</b> used as an unknown IEI.         |               |          |
| Element Name                                     | Element Value | Comments |
| iei                                              | '00010011'B   |          |
| iel                                              | '02'O         |          |
| idigit_1                                         | '1010'B       |          |
| oei                                              | '0'B          |          |
| toi                                              | '111'B        |          |
| idigits_other                                    | '78'O         |          |
| <b>Detailed Comments:</b> used in TC_26_5_6_1_2. |               |          |

| Structured Type Constraint |                         |          |
|----------------------------|-------------------------|----------|
| <b>Constraint Name:</b>    | Milmei_01               |          |
| <b>Structured Type:</b>    | MI                      |          |
| <b>Derivation Path:</b>    |                         |          |
| <b>Comments:</b>           | IMEI                    |          |
| Element Name               | Element Value           | Comments |
| iei                        | OMIT                    |          |
| iel                        | '08'O                   |          |
| idigit_1                   | OC_FirstDigi(TSPX_IMEI) |          |
| oei                        | '1'B                    |          |
| toi                        | '010'B                  |          |
| idigits_other              | OC_OtherDigi(TSPX_IMEI) |          |
| <b>Detailed Comments:</b>  |                         |          |

| Structured Type Constraint |                           |          |
|----------------------------|---------------------------|----------|
| <b>Constraint Name:</b>    | Milmeisv_01               |          |
| <b>Structured Type:</b>    | MI                        |          |
| <b>Derivation Path:</b>    |                           |          |
| <b>Comments:</b>           | TSPX_IMEISV               |          |
| Element Name               | Element Value             | Comments |
| iei                        | OMIT                      |          |
| iel                        | '09'O                     |          |
| idigit_1                   | OC_FirstDigi(TSPX_IMEISV) |          |
| oei                        | '0'B                      |          |
| toi                        | '011'B                    |          |
| idigits_other              | OC_OtherDigi(TSPX_IMEISV) |          |
| <b>Detailed Comments:</b>  |                           |          |

| Structured Type Constraint |                           |          |
|----------------------------|---------------------------|----------|
| <b>Constraint Name:</b>    | Milmeisv_01iei            |          |
| <b>Structured Type:</b>    | MI                        |          |
| <b>Derivation Path:</b>    |                           |          |
| <b>Comments:</b>           | TSPX_IMEISV               |          |
| Element Name               | Element Value             | Comments |
| iei                        | '00010111'B               |          |
| iel                        | '09'O                     |          |
| idigit_1                   | OC_FirstDigi(TSPX_IMEISV) |          |
| oei                        | '0'B                      |          |
| toi                        | '011'B                    |          |
| idigits_other              | OC_OtherDigi(TSPX_IMEISV) |          |
| <b>Detailed Comments:</b>  |                           |          |

| Structured Type Constraint |                                                |          |
|----------------------------|------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Milmsi_01                                      |          |
| <b>Structured Type:</b>    | MI                                             |          |
| <b>Derivation Path:</b>    |                                                |          |
| <b>Comments:</b>           | the TSPX_IMSI is the IMSI of the MS under test |          |
| Element Name               | Element Value                                  | Comments |
| iei                        | OMIT                                           |          |
| 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 |                                                |          |
|----------------------------|------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Milmsi_01iei                                   |          |
| <b>Structured Type:</b>    | MI                                             |          |
| <b>Derivation Path:</b>    |                                                |          |
| <b>Comments:</b>           | the TSPX_IMSI is the IMSI of the MS under test |          |
| Element Name               | Element Value                                  | Comments |
| iei                        | '00010111'B                                    |          |
| iel                        | OC_IntToOct(((LENGTH_OF(TSPX_IMSI))/2 + 1),1)  |          |
| idigit_1                   | OC_FirstDigi(TSPX_IMSI)                        |          |
| oei                        | OC_OeBit(TSPX_IMSI)                            |          |
| toi                        | '001'B                                         |          |
| idigits_other              | OC_OtherDigi(TSPX_IMSI)                        |          |
| <b>Detailed Comments:</b>  |                                                |          |

| Structured Type Constraint |                                                                                                                              |          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Milmsi_02                                                                                                                    |          |
| <b>Structured Type:</b>    | MI                                                                                                                           |          |
| <b>Derivation Path:</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                                                                                                                | Comments |
| iei                        | OMIT                                                                                                                         |          |
| iel                        | '01'O                                                                                                                        |          |
| idigit_1                   | '1111'B                                                                                                                      |          |
| oei                        | '0'B                                                                                                                         |          |
| toi                        | '000'B                                                                                                                       |          |
| idigits_other              | OMIT                                                                                                                         |          |
| <b>Detailed Comments:</b>  |                                                                                                                              |          |

| Structured Type Constraint                                   |                                                                                                   |          |
|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>                                      | Milmsi_31                                                                                         |          |
| <b>Structured Type:</b>                                      | MI                                                                                                |          |
| <b>Derivation Path:</b>                                      |                                                                                                   |          |
| <b>Comments:</b>                                             | An another IMSI differing from Milmsi_01for RR testing, which is shorter than the maximum length. |          |
| Element Name                                                 | Element Value                                                                                     | Comments |
| iei                                                          | OMIT                                                                                              |          |
| 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 |                                                                                                     |          |
|----------------------------|-----------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Milmsi_31iei                                                                                        |          |
| <b>Structured Type:</b>    | MI                                                                                                  |          |
| <b>Derivation Path:</b>    |                                                                                                     |          |
| <b>Comments:</b>           | An another IMSI differing from Milmsi_01 for RR testing, which is shorter than the maximum length.  |          |
| Element Name               | Element Value                                                                                       | Comments |
| iei                        | '00010111'B                                                                                         |          |
| 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'. The iei appears in the messages, e.g. location updating accept. |          |

| Structured Type Constraint |                                                          |          |
|----------------------------|----------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Milmsi_r01                                               |          |
| <b>Structured Type:</b>    | MI                                                       |          |
| <b>Derivation Path:</b>    |                                                          |          |
| <b>Comments:</b>           | An another IMSI differing from Milmsi_01 for RR testing. |          |
| Element Name               | Element Value                                            | Comments |
| iei                        | OMIT                                                     |          |
| 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 |                                                          |          |
|----------------------------|----------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Milmsi_r01iei                                            |          |
| <b>Structured Type:</b>    | MI                                                       |          |
| <b>Derivation Path:</b>    |                                                          |          |
| <b>Comments:</b>           | An another IMSI differing from Milmsi_01 for RR testing. |          |
| Element Name               | Element Value                                            | Comments |
| iei                        | '00010111'B                                              |          |
| 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 |                       |          |
|----------------------------|-----------------------|----------|
| <b>Constraint Name:</b>    | MiMsi_omit            |          |
| <b>Structured Type:</b>    | MI                    |          |
| <b>Derivation Path:</b>    |                       |          |
| <b>Comments:</b>           | omit MSI for testing. |          |
| Element Name               | Element Value         | Comments |
| iei                        | OMIT                  |          |
| iel                        | OMIT                  |          |
| idigit_1                   | OMIT                  |          |
| oei                        | OMIT                  |          |
| toi                        | OMIT                  |          |
| idigits_other              | OMIT                  |          |
| <b>Detailed Comments:</b>  |                       |          |

| Structured Type Constraint |                           |          |
|----------------------------|---------------------------|----------|
| <b>Constraint Name:</b>    | MiTmsi_01                 |          |
| <b>Structured Type:</b>    | MI                        |          |
| <b>Derivation Path:</b>    |                           |          |
| <b>Comments:</b>           | default TMSI for testing. |          |
| Element Name               | Element Value             | Comments |
| iei                        | OMIT                      |          |
| iel                        | '05'O                     |          |
| idigit_1                   | '1111'B                   |          |
| oei                        | '0'B                      |          |
| toi                        | '100'B                    |          |
| idigits_other              | TSPX_TMSI                 |          |
| <b>Detailed Comments:</b>  |                           |          |

| Structured Type Constraint |                           |          |
|----------------------------|---------------------------|----------|
| <b>Constraint Name:</b>    | MiTmsi_01iei              |          |
| <b>Structured Type:</b>    | MI                        |          |
| <b>Derivation Path:</b>    |                           |          |
| <b>Comments:</b>           | default TMSI for testing. |          |
| Element Name               | Element Value             | Comments |
| iei                        | '00010111'B               |          |
| iel                        | '05'O                     |          |
| idigit_1                   | '1111'B                   |          |
| oei                        | '0'B                      |          |
| toi                        | '100'B                    |          |
| idigits_other              | TSPX_TMSI                 |          |
| <b>Detailed Comments:</b>  |                           |          |

| Structured Type Constraint |               |          |
|----------------------------|---------------|----------|
| <b>Constraint Name:</b>    | MiTmsi_02     |          |
| <b>Structured Type:</b>    | MI            |          |
| <b>Derivation Path:</b>    |               |          |
| <b>Comments:</b>           | A new TMSI    |          |
| Element Name               | Element Value | Comments |
| iei                        | OMIT          |          |
| iel                        | '05'O         |          |
| idigit_1                   | '1111'B       |          |
| oei                        | '0'B          |          |
| toi                        | '100'B        |          |
| idigits_other              | TSPX_TMSI1    |          |
| <b>Detailed Comments:</b>  |               |          |

| Structured Type Constraint |               |          |
|----------------------------|---------------|----------|
| <b>Constraint Name:</b>    | MiTmsi_02iei  |          |
| <b>Structured Type:</b>    | MI            |          |
| <b>Derivation Path:</b>    |               |          |
| <b>Comments:</b>           | A new TMSI    |          |
| Element Name               | Element Value | Comments |
| iei                        | '00010111'B   |          |
| iel                        | '05'O         |          |
| idigit_1                   | '1111'B       |          |
| oei                        | '0'B          |          |
| toi                        | '100'B        |          |
| idigits_other              | TSPX_TMSI1    |          |
| <b>Detailed Comments:</b>  |               |          |

| Structured Type Constraint |                                                                  |          |
|----------------------------|------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MiTmsi_r01                                                       |          |
| <b>Structured Type:</b>    | MI                                                               |          |
| <b>Derivation Path:</b>    |                                                                  |          |
| <b>Comments:</b>           | A TMSI differs from MiTmsi_01                                    |          |
| Element Name               | Element Value                                                    | Comments |
| iei                        | OMIT                                                             |          |
| 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 |                                                     |          |
|----------------------------|-----------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MiTmsi_r02                                          |          |
| <b>Structured Type:</b>    | MI                                                  |          |
| <b>Derivation Path:</b>    |                                                     |          |
| <b>Comments:</b>           | default TMSI for testing with toi setting to no id. |          |
| Element Name               | Element Value                                       | Comments |
| iei                        | OMIT                                                |          |
| iel                        | '05'O                                               |          |
| idigit_1                   | '1111'B                                             |          |
| oei                        | '0'B                                                |          |
| toi                        | '000'B                                              |          |
| idigits_other              | TSPX_TMSI                                           |          |
| <b>Detailed Comments:</b>  |                                                     |          |

| Structured Type Constraint |                                                     |          |
|----------------------------|-----------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MiTmsi_r02iei                                       |          |
| <b>Structured Type:</b>    | MI                                                  |          |
| <b>Derivation Path:</b>    |                                                     |          |
| <b>Comments:</b>           | default TMSI for testing with toi setting to no id. |          |
| Element Name               | Element Value                                       | Comments |
| iei                        | '00010111'B                                         |          |
| iel                        | '05'O                                               |          |
| idigit_1                   | '1111'B                                             |          |
| oei                        | '0'B                                                |          |
| toi                        | '000'B                                              |          |
| idigits_other              | TSPX_TMSI                                           |          |
| <b>Detailed Comments:</b>  |                                                     |          |



| Structured Type Constraint           |               |          |
|--------------------------------------|---------------|----------|
| <b>Constraint Name:</b> MobilAllc_01 |               |          |
| <b>Structured Type:</b> MA           |               |          |
| <b>Derivation Path:</b>              |               |          |
| <b>Comments:</b> non hopping         |               |          |
| Element Name                         | Element Value | Comments |
| iei                                  | OMIT          |          |
| iel                                  | '00'O         |          |
| mac_8n                               | OMIT          |          |
| mac_7n                               | OMIT          |          |
| mac_6n                               | OMIT          |          |
| mac_5n                               | OMIT          |          |
| mac_4n                               | OMIT          |          |
| mac_3n                               | OMIT          |          |
| mac_2n                               | OMIT          |          |
| mac_1n                               | OMIT          |          |
| <b>Detailed Comments:</b>            |               |          |

| Structured Type Constraint              |               |          |
|-----------------------------------------|---------------|----------|
| <b>Constraint Name:</b> MobilAllc_01iei |               |          |
| <b>Structured Type:</b> MA              |               |          |
| <b>Derivation Path:</b>                 |               |          |
| <b>Comments:</b> non hopping            |               |          |
| Element Name                            | Element Value | Comments |
| iei                                     | '01110010'B   |          |
| iel                                     | '00'O         |          |
| mac_8n                                  | OMIT          |          |
| mac_7n                                  | OMIT          |          |
| mac_6n                                  | OMIT          |          |
| mac_5n                                  | OMIT          |          |
| mac_4n                                  | OMIT          |          |
| mac_3n                                  | OMIT          |          |
| mac_2n                                  | OMIT          |          |
| mac_1n                                  | OMIT          |          |
| <b>Detailed Comments:</b>               |               |          |

| Structured Type Constraint            |               |          |
|---------------------------------------|---------------|----------|
| <b>Constraint Name:</b> MobilAllc_02  |               |          |
| <b>Structured Type:</b> MA            |               |          |
| <b>Derivation Path:</b> MobilAllc_01. |               |          |
| <b>Comments:</b> hopping              |               |          |
| Element Name                          | Element Value | Comments |
| iei                                   | '01110010'B   |          |
| iel                                   | '01'O         |          |
| mac_8n                                | '00000010'B   |          |
| <b>Detailed Comments:</b>             |               |          |

| Structured Type Constraint |                                |          |
|----------------------------|--------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_04                    |          |
| <b>Structured Type:</b>    | MA                             |          |
| <b>Derivation Path:</b>    |                                |          |
| <b>Comments:</b>           | hopping used in TC_26_6_4_2_2. |          |
| Element Name               | Element Value                  | Comments |
| iei                        | '01110010'B                    |          |
| iel                        | '01'O                          |          |
| mac_8n                     | '00001110'B                    |          |
| mac_7n                     | OMIT                           |          |
| mac_6n                     | OMIT                           |          |
| mac_5n                     | OMIT                           |          |
| mac_4n                     | OMIT                           |          |
| mac_3n                     | OMIT                           |          |
| mac_2n                     | OMIT                           |          |
| mac_1n                     | OMIT                           |          |
| <b>Detailed Comments:</b>  |                                |          |

| Structured Type Constraint |                                                                                                                                                                     |          |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_20_A0                                                                                                                                                      |          |
| <b>Structured Type:</b>    | MA                                                                                                                                                                  |          |
| <b>Derivation Path:</b>    |                                                                                                                                                                     |          |
| <b>Comments:</b>           | hopping with 0001 1111 1111 1111 1111<br>indicates all of the frequencies in CA of cell A with<br>ARFCN_list={10,17,20,26,34,42,45,46,52,59,66,73,74,75,76,108,114} |          |
| Element Name               | Element Value                                                                                                                                                       | Comments |
| iei                        | OMIT                                                                                                                                                                |          |
| iel                        | '03'O                                                                                                                                                               |          |
| mac_8n                     | '00000001'B                                                                                                                                                         |          |
| mac_7n                     | '11111111'B                                                                                                                                                         |          |
| mac_6n                     | '11111111'B                                                                                                                                                         |          |
| mac_5n                     | OMIT                                                                                                                                                                |          |
| mac_4n                     | OMIT                                                                                                                                                                |          |
| mac_3n                     | OMIT                                                                                                                                                                |          |
| mac_2n                     | OMIT                                                                                                                                                                |          |
| mac_1n                     | OMIT                                                                                                                                                                |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                     |          |

| Structured Type Constraint |                                                                                                                                                                 |          |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_20_A1                                                                                                                                                  |          |
| <b>Structured Type:</b>    | MA                                                                                                                                                              |          |
| <b>Derivation Path:</b>    |                                                                                                                                                                 |          |
| <b>Comments:</b>           | indicates all of the frequencies in CA of cell A with<br>ARFCN_list={10,17,20,26,34,42,45,46,52,59,66,73,74,75,76,108,114} except for the BCCH<br>frequency 20. |          |
| Element Name               | Element Value                                                                                                                                                   | Comments |
| iei                        | '01110010'B                                                                                                                                                     |          |
| iel                        | '03'O                                                                                                                                                           |          |
| mac_8n                     | '00000001'B                                                                                                                                                     |          |
| mac_7n                     | '11111111'B                                                                                                                                                     |          |
| mac_6n                     | '11111011'B                                                                                                                                                     |          |
| mac_5n                     | OMIT                                                                                                                                                            |          |
| mac_4n                     | OMIT                                                                                                                                                            |          |
| mac_3n                     | OMIT                                                                                                                                                            |          |
| mac_2n                     | OMIT                                                                                                                                                            |          |
| mac_1n                     | OMIT                                                                                                                                                            |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                 |          |

| Structured Type Constraint |                                                                                                                                                          |          |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_20_A3d                                                                                                                                          |          |
| <b>Structured Type:</b>    | MA                                                                                                                                                       |          |
| <b>Derivation Path:</b>    |                                                                                                                                                          |          |
| <b>Comments:</b>           | indicates all of the frequencies in CA of cell A<br>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                                                                                                                                            | Comments |
| iei                        | OMIT                                                                                                                                                     |          |
| iel                        | '03'O                                                                                                                                                    |          |
| mac_8n                     | '00000001'B                                                                                                                                              |          |
| mac_7n                     | '11111111'B                                                                                                                                              |          |
| mac_6n                     | '01111011'B                                                                                                                                              |          |
| mac_5n                     | OMIT                                                                                                                                                     |          |
| mac_4n                     | OMIT                                                                                                                                                     |          |
| mac_3n                     | OMIT                                                                                                                                                     |          |
| mac_2n                     | OMIT                                                                                                                                                     |          |
| mac_1n                     | OMIT                                                                                                                                                     |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                          |          |

| Structured Type Constraint |                                                                                                             |          |
|----------------------------|-------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_252                                                                                                |          |
| <b>Structured Type:</b>    | MA                                                                                                          |          |
| <b>Derivation Path:</b>    |                                                                                                             |          |
| <b>Comments:</b>           | hopping with 0001 1100<br>indicates ARFCN_list={40,66,73,74,75,76,108,114}<br>to the ARFCN_list={73,74,75}. |          |
| Element Name               | Element Value                                                                                               | Comments |
| iei                        | '01110010'B                                                                                                 |          |
| iel                        | '01'O                                                                                                       |          |
| mac_8n                     | '00011100'B                                                                                                 |          |
| mac_7n                     | OMIT                                                                                                        |          |
| mac_6n                     | OMIT                                                                                                        |          |
| mac_5n                     | OMIT                                                                                                        |          |
| mac_4n                     | OMIT                                                                                                        |          |
| mac_3n                     | OMIT                                                                                                        |          |
| mac_2n                     | OMIT                                                                                                        |          |
| mac_1n                     | OMIT                                                                                                        |          |
| <b>Detailed Comments:</b>  |                                                                                                             |          |

| Structured Type Constraint |                                                                                                               |          |
|----------------------------|---------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_252d                                                                                                 |          |
| <b>Structured Type:</b>    | MA                                                                                                            |          |
| <b>Derivation Path:</b>    |                                                                                                               |          |
| <b>Comments:</b>           | hopping with 0111 0000 0<br>List_ARFCN={761,764,771,779,782,791,798,829,832} to the ARFCN_list={791,798,829}. |          |
| Element Name               | Element Value                                                                                                 | Comments |
| iei                        | '01110010'B                                                                                                   |          |
| iel                        | '02'O                                                                                                         |          |
| mac_8n                     | '00000000'B                                                                                                   |          |
| mac_7n                     | '11100000'B                                                                                                   |          |
| mac_6n                     | OMIT                                                                                                          |          |
| mac_5n                     | OMIT                                                                                                          |          |
| mac_4n                     | OMIT                                                                                                          |          |
| mac_3n                     | OMIT                                                                                                          |          |
| mac_2n                     | OMIT                                                                                                          |          |
| mac_1n                     | OMIT                                                                                                          |          |
| <b>Detailed Comments:</b>  |                                                                                                               |          |

| Structured Type Constraint |                                                                                     |          |
|----------------------------|-------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_22                                                                         |          |
| <b>Structured Type:</b>    | MA                                                                                  |          |
| <b>Derivation Path:</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                                                                       | Comments |
| iei                        | '01110010'B                                                                         |          |
| iel                        | '02'O                                                                               |          |
| mac_8n                     | '00111111'B                                                                         |          |
| mac_7n                     | '01111111'B                                                                         |          |
| mac_6n                     | OMIT                                                                                |          |
| mac_5n                     | OMIT                                                                                |          |
| mac_4n                     | OMIT                                                                                |          |
| mac_3n                     | OMIT                                                                                |          |
| mac_2n                     | OMIT                                                                                |          |
| mac_1n                     | OMIT                                                                                |          |
| <b>Detailed Comments:</b>  |                                                                                     |          |

| Structured Type Constraint |                                                                              |          |
|----------------------------|------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_281                                                                 |          |
| <b>Structured Type:</b>    | MA                                                                           |          |
| <b>Derivation Path:</b>    |                                                                              |          |
| <b>Comments:</b>           | hopping with<br>indicates to the ARFCN_list={73,74,75} of cell allocation A. |          |
| Element Name               | Element Value                                                                | Comments |
| iei                        | OMIT                                                                         |          |
| iel                        | '03'O                                                                        |          |
| mac_8n                     | '00000000'B                                                                  |          |
| mac_7n                     | '00111000'B                                                                  |          |
| mac_6n                     | '00000000'B                                                                  |          |
| mac_5n                     | OMIT                                                                         |          |
| mac_4n                     | OMIT                                                                         |          |
| mac_3n                     | OMIT                                                                         |          |
| mac_2n                     | OMIT                                                                         |          |
| mac_1n                     | OMIT                                                                         |          |
| <b>Detailed Comments:</b>  |                                                                              |          |

| Structured Type Constraint |                                                                                 |          |
|----------------------------|---------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_281d                                                                   |          |
| <b>Structured Type:</b>    | MA                                                                              |          |
| <b>Derivation Path:</b>    |                                                                                 |          |
| <b>Comments:</b>           | hopping with<br>indicates to the ARFCN_list={773,775,779} of cell allocation A. |          |
| Element Name               | Element Value                                                                   | Comments |
| iei                        | OMIT                                                                            |          |
| iel                        | '03'O                                                                           |          |
| mac_8n                     | '00000000'B                                                                     |          |
| mac_7n                     | '00000111'B                                                                     |          |
| mac_6n                     | '00000000'B                                                                     |          |
| mac_5n                     | OMIT                                                                            |          |
| mac_4n                     | OMIT                                                                            |          |
| mac_3n                     | OMIT                                                                            |          |
| mac_2n                     | OMIT                                                                            |          |
| mac_1n                     | OMIT                                                                            |          |
| <b>Detailed Comments:</b>  |                                                                                 |          |

| Structured Type Constraint |                                                                                                                                |          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_281e                                                                                                                  |          |
| <b>Structured Type:</b>    | MA                                                                                                                             |          |
| <b>Derivation Path:</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                                                                                                                  | Comments |
| iei                        | OMIT                                                                                                                           |          |
| iel                        | '01'O                                                                                                                          |          |
| mac_8n                     | '10111000'B                                                                                                                    |          |
| mac_7n                     | OMIT                                                                                                                           |          |
| mac_6n                     | OMIT                                                                                                                           |          |
| mac_5n                     | OMIT                                                                                                                           |          |
| mac_4n                     | OMIT                                                                                                                           |          |
| mac_3n                     | OMIT                                                                                                                           |          |
| mac_2n                     | OMIT                                                                                                                           |          |
| mac_1n                     | OMIT                                                                                                                           |          |
| <b>Detailed Comments:</b>  |                                                                                                                                |          |

| Structured Type Constraint |                                                                                                                                            |          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_281e2                                                                                                                             |          |
| <b>Structured Type:</b>    | MA                                                                                                                                         |          |
| <b>Derivation Path:</b>    |                                                                                                                                            |          |
| <b>Comments:</b>           | hopping with<br>indicates to the ARFCN_list={20,66,78} of E-GSM cell allocation with<br>ARFCN_List={20,40,66,73,74,75,76,77,78,79,108,114} |          |
| Element Name               | Element Value                                                                                                                              | Comments |
| iei                        | OMIT                                                                                                                                       |          |
| iel                        | '02'O                                                                                                                                      |          |
| mac_8n                     | '00000001'B                                                                                                                                |          |
| mac_7n                     | '00000101'B                                                                                                                                |          |
| mac_6n                     | OMIT                                                                                                                                       |          |
| mac_5n                     | OMIT                                                                                                                                       |          |
| mac_4n                     | OMIT                                                                                                                                       |          |
| mac_3n                     | OMIT                                                                                                                                       |          |
| mac_2n                     | OMIT                                                                                                                                       |          |
| mac_1n                     | OMIT                                                                                                                                       |          |
| <b>Detailed Comments:</b>  |                                                                                                                                            |          |

| Structured Type Constraint |                                                                                            |          |
|----------------------------|--------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_282                                                                               |          |
| <b>Structured Type:</b>    | MA                                                                                         |          |
| <b>Derivation Path:</b>    |                                                                                            |          |
| <b>Comments:</b>           | hopping with<br>indicates to the Complete Cell Allocation of cell A with except for BCCH-f |          |
| Element Name               | Element Value                                                                              | Comments |
| iei                        | OMIT                                                                                       |          |
| iel                        | '03'O                                                                                      |          |
| mac_8n                     | '00000001'B                                                                                |          |
| mac_7n                     | '11111111'B                                                                                |          |
| mac_6n                     | '11111011'B                                                                                |          |
| mac_5n                     | OMIT                                                                                       |          |
| mac_4n                     | OMIT                                                                                       |          |
| mac_3n                     | OMIT                                                                                       |          |
| mac_2n                     | OMIT                                                                                       |          |
| mac_1n                     | OMIT                                                                                       |          |
| <b>Detailed Comments:</b>  |                                                                                            |          |

| Structured Type Constraint |                                                                                                     |          |
|----------------------------|-----------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_20_B1                                                                                      |          |
| <b>Structured Type:</b>    | MA                                                                                                  |          |
| <b>Derivation Path:</b>    |                                                                                                     |          |
| <b>Comments:</b>           | hopping with 1111 1111 1111 1111<br>ARFCN_list={14,18,22,24,30,31,38,40,60,66,73,74,75,76,108,114}. |          |
| Element Name               | Element Value                                                                                       | Comments |
| iei                        | OMIT                                                                                                |          |
| iel                        | '02'O                                                                                               |          |
| mac_8n                     | '11111111'B                                                                                         |          |
| mac_7n                     | '11111111'B                                                                                         |          |
| mac_6n                     | OMIT                                                                                                |          |
| mac_5n                     | OMIT                                                                                                |          |
| mac_4n                     | OMIT                                                                                                |          |
| mac_3n                     | OMIT                                                                                                |          |
| mac_2n                     | OMIT                                                                                                |          |
| mac_1n                     | OMIT                                                                                                |          |
| <b>Detailed Comments:</b>  |                                                                                                     |          |

| Structured Type Constraint |                                                                              |          |
|----------------------------|------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_20_B1iei                                                            |          |
| <b>Structured Type:</b>    | MA                                                                           |          |
| <b>Derivation Path:</b>    |                                                                              |          |
| <b>Comments:</b>           | hopping with ARFCN_list={14,18,22,24,30,31,38,40,60,66,73,74,75,76,108,114}. |          |
| Element Name               | Element Value                                                                | Comments |
| iei                        | '01110010'B                                                                  |          |
| iel                        | '02'O                                                                        |          |
| mac_8n                     | '10100111'B                                                                  |          |
| mac_7n                     | OMIT                                                                         |          |
| mac_6n                     | OMIT                                                                         |          |
| mac_5n                     | OMIT                                                                         |          |
| mac_4n                     | OMIT                                                                         |          |
| mac_3n                     | OMIT                                                                         |          |
| mac_2n                     | OMIT                                                                         |          |
| mac_1n                     | OMIT                                                                         |          |
| <b>Detailed Comments:</b>  |                                                                              |          |

| Structured Type Constraint |                                    |          |
|----------------------------|------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_20_Be1(par_ma: BITSTRING) |          |
| <b>Structured Type:</b>    | MA                                 |          |
| <b>Derivation Path:</b>    |                                    |          |
| <b>Comments:</b>           | hopping with par_ma                |          |
| Element Name               | Element Value                      | Comments |
| iei                        | OMIT                               |          |
| iel                        | '01'O                              |          |
| mac_8n                     | par_ma                             |          |
| mac_7n                     | OMIT                               |          |
| mac_6n                     | OMIT                               |          |
| mac_5n                     | OMIT                               |          |
| mac_4n                     | OMIT                               |          |
| mac_3n                     | OMIT                               |          |
| mac_2n                     | OMIT                               |          |
| mac_1n                     | OMIT                               |          |
| <b>Detailed Comments:</b>  |                                    |          |

| Structured Type Constraint |                                                         |          |
|----------------------------|---------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_20_Be2(par_ma1: BITSTRING; par_ma2: BITSTRING) |          |
| <b>Structured Type:</b>    | MA                                                      |          |
| <b>Derivation Path:</b>    |                                                         |          |
| <b>Comments:</b>           | hopping with par_ma1 and par_ma2                        |          |
| Element Name               | Element Value                                           | Comments |
| iei                        | OMIT                                                    |          |
| iel                        | '02'O                                                   |          |
| mac_8n                     | par_ma1                                                 |          |
| mac_7n                     | par_ma2                                                 |          |
| mac_6n                     | OMIT                                                    |          |
| mac_5n                     | OMIT                                                    |          |
| mac_4n                     | OMIT                                                    |          |
| mac_3n                     | OMIT                                                    |          |
| mac_2n                     | OMIT                                                    |          |
| mac_1n                     | OMIT                                                    |          |
| <b>Detailed Comments:</b>  |                                                         |          |

| Structured Type Constraint |                                                            |          |
|----------------------------|------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_20_Be2iei(par_ma1: BITSTRING; par_ma2: BITSTRING) |          |
| <b>Structured Type:</b>    | MA                                                         |          |
| <b>Derivation Path:</b>    |                                                            |          |
| <b>Comments:</b>           | hopping with par_ma1 and par_ma2                           |          |
| Element Name               | Element Value                                              | Comments |
| iei                        | '01110010'B                                                |          |
| iel                        | '02'O                                                      |          |
| mac_8n                     | par_ma1                                                    |          |
| mac_7n                     | par_ma2                                                    |          |
| mac_6n                     | OMIT                                                       |          |
| mac_5n                     | OMIT                                                       |          |
| mac_4n                     | OMIT                                                       |          |
| mac_3n                     | OMIT                                                       |          |
| mac_2n                     | OMIT                                                       |          |
| mac_1n                     | OMIT                                                       |          |
| <b>Detailed Comments:</b>  |                                                            |          |

| Structured Type Constraint |                                                                                    |          |
|----------------------------|------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_20_A2                                                                     |          |
| <b>Structured Type:</b>    | MA                                                                                 |          |
| <b>Derivation Path:</b>    |                                                                                    |          |
| <b>Comments:</b>           | hopping with default Cell Allocation of HO cases and only one frequency in hopping |          |
| Element Name               | Element Value                                                                      | Comments |
| iei                        | OMIT                                                                               |          |
| iel                        | '03'O                                                                              |          |
| mac_8n                     | '00000001'B                                                                        |          |
| mac_7n                     | '00000000'B                                                                        |          |
| mac_6n                     | '00000000'B                                                                        |          |
| mac_5n                     | OMIT                                                                               |          |
| mac_4n                     | OMIT                                                                               |          |
| mac_3n                     | OMIT                                                                               |          |
| mac_2n                     | OMIT                                                                               |          |
| mac_1n                     | OMIT                                                                               |          |
| <b>Detailed Comments:</b>  |                                                                                    |          |

| Structured Type Constraint |                                                                                                                                                                                              |          |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_20_A2iei                                                                                                                                                                            |          |
| <b>Structured Type:</b>    | MA                                                                                                                                                                                           |          |
| <b>Derivation Path:</b>    |                                                                                                                                                                                              |          |
| <b>Comments:</b>           | hopping with 1000 0000 0000 0000<br>indicates from default Cell Allocation of HO cases with the<br>ARFCN_List={10,17,20,26,34,42,45,46,52,59,66,73,74,75,76,108,114} the<br>ARFCN_list={114} |          |
| Element Name               | Element Value                                                                                                                                                                                | Comments |
| iei                        | '01110010'B                                                                                                                                                                                  |          |
| iel                        | '03'O                                                                                                                                                                                        |          |
| mac_8n                     | '00000001'B                                                                                                                                                                                  |          |
| mac_7n                     | '00000000'B                                                                                                                                                                                  |          |
| mac_6n                     | '00000000'B                                                                                                                                                                                  |          |
| mac_5n                     | OMIT                                                                                                                                                                                         |          |
| mac_4n                     | OMIT                                                                                                                                                                                         |          |
| mac_3n                     | OMIT                                                                                                                                                                                         |          |
| mac_2n                     | OMIT                                                                                                                                                                                         |          |
| mac_1n                     | OMIT                                                                                                                                                                                         |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                                              |          |

| Structured Type Constraint |                                                                                                                                         |          |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_20_A3                                                                                                                          |          |
| <b>Structured Type:</b>    | MA                                                                                                                                      |          |
| <b>Derivation Path:</b>    |                                                                                                                                         |          |
| <b>Comments:</b>           | indicates all of the frequencies in CA of cell A<br>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                                                                                                                           | Comments |
| iei                        | OMIT                                                                                                                                    |          |
| iel                        | '03'O                                                                                                                                   |          |
| mac_8n                     | '00000001'B                                                                                                                             |          |
| mac_7n                     | '11111110'B                                                                                                                             |          |
| mac_6n                     | '11111011'B                                                                                                                             |          |
| mac_5n                     | OMIT                                                                                                                                    |          |
| mac_4n                     | OMIT                                                                                                                                    |          |
| mac_3n                     | OMIT                                                                                                                                    |          |
| mac_2n                     | OMIT                                                                                                                                    |          |
| mac_1n                     | OMIT                                                                                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                                                                                         |          |

| Structured Type Constraint |               |          |
|----------------------------|---------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_omit |          |
| <b>Structured Type:</b>    | MA            |          |
| <b>Derivation Path:</b>    |               |          |
| <b>Comments:</b>           |               |          |
| Element Name               | Element Value | Comments |
| iei                        | OMIT          |          |
| iel                        | OMIT          |          |
| mac_8n                     | OMIT          |          |
| mac_7n                     | OMIT          |          |
| mac_6n                     | OMIT          |          |
| mac_5n                     | OMIT          |          |
| mac_4n                     | OMIT          |          |
| mac_3n                     | OMIT          |          |
| mac_2n                     | OMIT          |          |
| mac_1n                     | OMIT          |          |
| <b>Detailed Comments:</b>  |               |          |



| Structured Type Constraint           |               |          |
|--------------------------------------|---------------|----------|
| <b>Constraint Name:</b> MoblAllc_r01 |               |          |
| <b>Structured Type:</b> MA           |               |          |
| <b>Derivation Path:</b>              |               |          |
| <b>Comments:</b>                     |               |          |
| Element Name                         | Element Value | Comments |
| iei                                  | '01110010'B   |          |
| iel                                  | '02'O         |          |
| mac_8n                               | '00000011'B   |          |
| mac_7n                               | '11111101'B   |          |
| mac_6n                               | OMIT          |          |
| mac_5n                               | OMIT          |          |
| mac_4n                               | OMIT          |          |
| mac_3n                               | OMIT          |          |
| mac_2n                               | OMIT          |          |
| mac_1n                               | OMIT          |          |
| <b>Detailed Comments:</b>            |               |          |

| Structured Type Constraint           |               |          |
|--------------------------------------|---------------|----------|
| <b>Constraint Name:</b> MoblAllc_r02 |               |          |
| <b>Structured Type:</b> MA           |               |          |
| <b>Derivation Path:</b>              |               |          |
| <b>Comments:</b>                     |               |          |
| Element Name                         | Element Value | Comments |
| iei                                  | '01110010'B   |          |
| iel                                  | '02'O         |          |
| mac_8n                               | '00000011'B   |          |
| mac_7n                               | '11100011'B   |          |
| mac_6n                               | OMIT          |          |
| mac_5n                               | OMIT          |          |
| mac_4n                               | OMIT          |          |
| mac_3n                               | OMIT          |          |
| mac_2n                               | OMIT          |          |
| mac_1n                               | OMIT          |          |
| <b>Detailed Comments:</b>            |               |          |

| Structured Type Constraint            |               |          |
|---------------------------------------|---------------|----------|
| <b>Constraint Name:</b> MoblAllc_r03  |               |          |
| <b>Structured Type:</b> MA            |               |          |
| <b>Derivation Path:</b> MoblAllc_r01. |               |          |
| <b>Comments:</b>                      |               |          |
| Element Name                          | Element Value | Comments |
| iel                                   | '01'O         |          |
| mac_8n                                | '00000001'B   |          |
| mac_7n                                | OMIT          |          |
| <b>Detailed Comments:</b>             |               |          |

| Structured Type Constraint |               |          |
|----------------------------|---------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_r04  |          |
| <b>Structured Type:</b>    | MA            |          |
| <b>Derivation Path:</b>    |               |          |
| <b>Comments:</b>           |               |          |
| Element Name               | Element Value | Comments |
| iei                        | '01110010'B   |          |
| iel                        | '02'O         |          |
| mac_8n                     | '00000001'B   |          |
| mac_7n                     | '11000111'B   |          |
| mac_6n                     | OMIT          |          |
| mac_5n                     | OMIT          |          |
| mac_4n                     | OMIT          |          |
| mac_3n                     | OMIT          |          |
| mac_2n                     | OMIT          |          |
| mac_1n                     | OMIT          |          |
| <b>Detailed Comments:</b>  |               |          |

| Structured Type Constraint |                                                        |          |
|----------------------------|--------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_r05                                           |          |
| <b>Structured Type:</b>    | MA                                                     |          |
| <b>Derivation Path:</b>    | MoblAllc_r01.                                          |          |
| <b>Comments:</b>           | used in TC_26_6_13_1 for immediate assignment command  |          |
| Element Name               | Element Value                                          | Comments |
| iei                        | OMIT                                                   |          |
| 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                     | OMIT                                                   |          |
| mac_4n                     | OMIT                                                   |          |
| mac_3n                     | OMIT                                                   |          |
| mac_2n                     | OMIT                                                   |          |
| mac_1n                     | OMIT                                                   |          |
| <b>Detailed Comments:</b>  |                                                        |          |

| Structured Type Constraint |                                                        |          |
|----------------------------|--------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_r06                                           |          |
| <b>Structured Type:</b>    | MA                                                     |          |
| <b>Derivation Path:</b>    |                                                        |          |
| <b>Comments:</b>           | used in TC_26_6_13_1 after time                        |          |
| Element Name               | Element Value                                          | 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                     | OMIT                                                   |          |
| mac_4n                     | OMIT                                                   |          |
| mac_3n                     | OMIT                                                   |          |
| mac_2n                     | OMIT                                                   |          |
| mac_1n                     | OMIT                                                   |          |
| <b>Detailed Comments:</b>  |                                                        |          |

| <b>Structured Type Constraint</b>                                  |                                                        |          |
|--------------------------------------------------------------------|--------------------------------------------------------|----------|
| <b>Constraint Name:</b> MobilAllc_r07                              |                                                        |          |
| <b>Structured Type:</b> MA                                         |                                                        |          |
| <b>Derivation Path:</b>                                            |                                                        |          |
| <b>Comments:</b> used in TC_26_6_13_1 and TC_26_6_13_2 before time |                                                        |          |
| Element Name                                                       | Element Value                                          | 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                                                             | OMIT                                                   |          |
| mac_4n                                                             | OMIT                                                   |          |
| mac_3n                                                             | OMIT                                                   |          |
| mac_2n                                                             | OMIT                                                   |          |
| mac_1n                                                             | OMIT                                                   |          |
| <b>Detailed Comments:</b>                                          |                                                        |          |

| <b>Structured Type Constraint</b>                                      |                                                        |          |
|------------------------------------------------------------------------|--------------------------------------------------------|----------|
| <b>Constraint Name:</b> MobilAllc_r08                                  |                                                        |          |
| <b>Structured Type:</b> MA                                             |                                                        |          |
| <b>Derivation Path:</b> MobilAllc_r01.MobilAllc_r05.                   |                                                        |          |
| <b>Comments:</b> used in TC_26_6_13_2 for immediate assignment command |                                                        |          |
| Element Name                                                           | Element Value                                          | 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>                                              |                                                        |          |

| <b>Structured Type Constraint</b>                |                                                        |          |
|--------------------------------------------------|--------------------------------------------------------|----------|
| <b>Constraint Name:</b> MobilAllc_r09            |                                                        |          |
| <b>Structured Type:</b> MA                       |                                                        |          |
| <b>Derivation Path:</b>                          |                                                        |          |
| <b>Comments:</b> used in TC_26_6_13_2 after time |                                                        |          |
| Element Name                                     | Element Value                                          | 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                                           | OMIT                                                   |          |
| mac_4n                                           | OMIT                                                   |          |
| mac_3n                                           | OMIT                                                   |          |
| mac_2n                                           | OMIT                                                   |          |
| mac_1n                                           | OMIT                                                   |          |
| <b>Detailed Comments:</b>                        |                                                        |          |

| Structured Type Constraint |                                                        |          |
|----------------------------|--------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_r10                                           |          |
| <b>Structured Type:</b>    | MA                                                     |          |
| <b>Derivation Path:</b>    | MoblAllc_r01.MoblAllc_r05.                             |          |
| <b>Comments:</b>           | used in TC_26_6_13_3 for immediate assignment          |          |
| Element Name               | Element Value                                          | 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 |                                                        |          |
|----------------------------|--------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_r11                                           |          |
| <b>Structured Type:</b>    | MA                                                     |          |
| <b>Derivation Path:</b>    |                                                        |          |
| <b>Comments:</b>           | used in TC_26_6_13_3 for frequency redefinition        |          |
| Element Name               | Element Value                                          | Comments |
| iei                        | OMIT                                                   |          |
| 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                     | OMIT                                                   |          |
| mac_4n                     | OMIT                                                   |          |
| mac_3n                     | OMIT                                                   |          |
| mac_2n                     | OMIT                                                   |          |
| mac_1n                     | OMIT                                                   |          |
| <b>Detailed Comments:</b>  |                                                        |          |

| Structured Type Constraint |                                                        |          |
|----------------------------|--------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_r12                                           |          |
| <b>Structured Type:</b>    | MA                                                     |          |
| <b>Derivation Path:</b>    | MoblAllc_r11.                                          |          |
| <b>Comments:</b>           | used in TC_26_6_13_3 for assignment command after time |          |
| Element Name               | Element Value                                          | 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 |                                                         |          |
|----------------------------|---------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_r13                                            |          |
| <b>Structured Type:</b>    | MA                                                      |          |
| <b>Derivation Path:</b>    |                                                         |          |
| <b>Comments:</b>           | used in TC_26_6_13_3 for assignment command before time |          |
| Element Name               | Element Value                                           | Comments |
| iei                        | '01110010'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                     | OMIT                                                    |          |
| mac_4n                     | OMIT                                                    |          |
| mac_3n                     | OMIT                                                    |          |
| mac_2n                     | OMIT                                                    |          |
| mac_1n                     | OMIT                                                    |          |
| <b>Detailed Comments:</b>  |                                                         |          |

| Structured Type Constraint |                                                         |          |
|----------------------------|---------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_r14                                            |          |
| <b>Structured Type:</b>    | MA                                                      |          |
| <b>Derivation Path:</b>    | MoblAllc_r01.MoblAllc_r05.                              |          |
| <b>Comments:</b>           | used in TC_26_6_13_4 for immediate assignment           |          |
| Element Name               | Element Value                                           | 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 |                                                         |          |
|----------------------------|---------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_r15                                            |          |
| <b>Structured Type:</b>    | MA                                                      |          |
| <b>Derivation Path:</b>    | MoblAllc_r01.MoblAllc_r05.                              |          |
| <b>Comments:</b>           | used in TC_26_6_13_4 for frequency redefinition         |          |
| Element Name               | Element Value                                           | 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 |                                                         |          |
|----------------------------|---------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_r16                                            |          |
| <b>Structured Type:</b>    | MA                                                      |          |
| <b>Derivation Path:</b>    |                                                         |          |
| <b>Comments:</b>           | used in TC_26_6_13_4 for assignment command after time  |          |
| Element Name               | Element Value                                           | 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                     | OMIT                                                    |          |
| mac_4n                     | OMIT                                                    |          |
| mac_3n                     | OMIT                                                    |          |
| mac_2n                     | OMIT                                                    |          |
| mac_1n                     | OMIT                                                    |          |
| <b>Detailed Comments:</b>  |                                                         |          |

| Structured Type Constraint |                                                         |          |
|----------------------------|---------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_r17                                            |          |
| <b>Structured Type:</b>    | MA                                                      |          |
| <b>Derivation Path:</b>    |                                                         |          |
| <b>Comments:</b>           | used in TC_26_6_13_4 for assignment command before time |          |
| Element Name               | Element Value                                           | 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                     | OMIT                                                    |          |
| mac_4n                     | OMIT                                                    |          |
| mac_3n                     | OMIT                                                    |          |
| mac_2n                     | OMIT                                                    |          |
| mac_1n                     | OMIT                                                    |          |
| <b>Detailed Comments:</b>  |                                                         |          |

| Structured Type Constraint |                                                         |          |
|----------------------------|---------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_r18                                            |          |
| <b>Structured Type:</b>    | MA                                                      |          |
| <b>Derivation Path:</b>    | MoblAllc_r01.MoblAllc_r05.                              |          |
| <b>Comments:</b>           | used in TC_26_6_13_5 for immediate assignment           |          |
| Element Name               | Element Value                                           | 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 |                                                         |          |
|----------------------------|---------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_r20                                            |          |
| <b>Structured Type:</b>    | MA                                                      |          |
| <b>Derivation Path:</b>    | MoblAllc_r01.MoblAllc_r05.                              |          |
| <b>Comments:</b>           | used in TC_26_6_13_5 for handover before time           |          |
| Element Name               | Element Value                                           | Comments |
| 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 |                                                         |          |
|----------------------------|---------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_r21                                            |          |
| <b>Structured Type:</b>    | MA                                                      |          |
| <b>Derivation Path:</b>    | MoblAllc_r01.MoblAllc_r05.                              |          |
| <b>Comments:</b>           | used in TC_26_6_13_6 for immediate assignment           |          |
| Element Name               | Element Value                                           | 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 |                                                         |          |
|----------------------------|---------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_r22                                            |          |
| <b>Structured Type:</b>    | MA                                                      |          |
| <b>Derivation Path:</b>    | MoblAllc_r01.MoblAllc_r05.                              |          |
| <b>Comments:</b>           | used in TC_26_6_13_6 for handover after time            |          |
| Element Name               | Element Value                                           | Comments |
| 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 |                                                         |          |
|----------------------------|---------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_r23                                            |          |
| <b>Structured Type:</b>    | MA                                                      |          |
| <b>Derivation Path:</b>    | MoblAllc_r01.MoblAllc_r05.                              |          |
| <b>Comments:</b>           | used in TC_26_6_13_6 for handover before time           |          |
| Element Name               | Element Value                                           | Comments |
| 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)         |          |
| <b>Detailed Comments:</b>  |                                                         |          |

| Structured Type Constraint |                                                         |          |
|----------------------------|---------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_r24                                            |          |
| <b>Structured Type:</b>    | MA                                                      |          |
| <b>Derivation Path:</b>    | MoblAllc_r01.MoblAllc_r05.                              |          |
| <b>Comments:</b>           | used in TC_26_6_13_7 for immediate assignment           |          |
| Element Name               | Element Value                                           | 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 |                                                         |          |
|----------------------------|---------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_r25                                            |          |
| <b>Structured Type:</b>    | MA                                                      |          |
| <b>Derivation Path:</b>    | MoblAllc_r01.MoblAllc_r05.                              |          |
| <b>Comments:</b>           | used in TC_26_6_13_7 for frequency redefinition         |          |
| Element Name               | Element Value                                           | 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 |                                                         |          |
|----------------------------|---------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_r26                                            |          |
| <b>Structured Type:</b>    | MA                                                      |          |
| <b>Derivation Path:</b>    | MoblAllc_r01.MoblAllc_r05.                              |          |
| <b>Comments:</b>           | used in TC_26_6_13_7 for HANDOVER COMMAND after time    |          |
| Element Name               | Element Value                                           | 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 |                                                         |          |
|----------------------------|---------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_r27                                            |          |
| <b>Structured Type:</b>    | MA                                                      |          |
| <b>Derivation Path:</b>    | MoblAllc_r01.MoblAllc_r05.                              |          |
| <b>Comments:</b>           | used in TC_26_6_13_7 for HANDOVER COMMAND before time   |          |
| Element Name               | Element Value                                           | 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 |                                                         |          |
|----------------------------|---------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_r28                                            |          |
| <b>Structured Type:</b>    | MA                                                      |          |
| <b>Derivation Path:</b>    | MoblAllc_r01.MoblAllc_r05.                              |          |
| <b>Comments:</b>           | used in TC_26_6_13_8 for immediate assignment           |          |
| Element Name               | Element Value                                           | 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 |                                                         |          |
|----------------------------|---------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_r29                                            |          |
| <b>Structured Type:</b>    | MA                                                      |          |
| <b>Derivation Path:</b>    | MoblAllc_r01.MoblAllc_r05.                              |          |
| <b>Comments:</b>           | used in TC_26_6_13_8 for frequency redefinition         |          |
| Element Name               | Element Value                                           | 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 |                                                         |          |
|----------------------------|---------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_r30                                            |          |
| <b>Structured Type:</b>    | MA                                                      |          |
| <b>Derivation Path:</b>    | MoblAllc_r01.MoblAllc_r05.                              |          |
| <b>Comments:</b>           | used in TC_26_6_13_8 for HANDOVER COMMAND after time    |          |
| Element Name               | Element Value                                           | 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 |                                                         |          |
|----------------------------|---------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_r31                                            |          |
| <b>Structured Type:</b>    | MA                                                      |          |
| <b>Derivation Path:</b>    | MoblAllc_r01.MoblAllc_r05.                              |          |
| <b>Comments:</b>           | used in TC_26_6_13_8 for HANDOVER COMMAND before time   |          |
| Element Name               | Element Value                                           | 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 |                                                           |          |
|----------------------------|-----------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_r32                                              |          |
| <b>Structured Type:</b>    | MA                                                        |          |
| <b>Derivation Path:</b>    | MoblAllc_r01.MoblAllc_r05.                                |          |
| <b>Comments:</b>           | used in TC_26_6_13_9 for immediate assignment, after time |          |
| Element Name               | Element Value                                             | 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 |                                                         |          |
|----------------------------|---------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MoblAllc_r33                                            |          |
| <b>Structured Type:</b>    | MA                                                      |          |
| <b>Derivation Path:</b>    | MoblAllc_r01.MoblAllc_r05.                              |          |
| <b>Comments:</b>           | used in TC_26_6_13_10 for immediate assignment          |          |
| Element Name               | Element Value                                           | 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 |                                                             |          |
|----------------------------|-------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MsrResult_01                                                |          |
| <b>Structured Type:</b>    | MSRR                                                        |          |
| <b>Derivation Path:</b>    |                                                             |          |
| <b>Comments:</b>           | A measurement results IE containing no measurement results. |          |
| Element Name               | Element Value                                               | Comments |
| ba_used                    | '1'B                                                        |          |
| dtx_used                   | '0'B                                                        |          |
| rxlev_fsc                  | ?                                                           |          |
| spr1                       | '0'B                                                        |          |
| meas_valid                 | '0'B                                                        |          |
| rxlev_ssc                  | ?                                                           |          |
| spr2                       | '0'B                                                        |          |
| rxqual_fsc                 | ?                                                           |          |
| rxqual_ssc                 | ?                                                           |          |
| no_nc                      | ('000'B, '111'B)                                            |          |
| rxlev_nc1                  | '000000'B                                                   |          |
| bcchfrq_nc1                | '00000'B                                                    |          |
| bsic_nc1                   | '000000'B                                                   |          |
| rxlev_nc2                  | '000000'B                                                   |          |
| bcchfrq_nc2                | '00000'B                                                    |          |
| bsic_nc2                   | '000000'B                                                   |          |
| rxlev_nc3                  | '000000'B                                                   |          |
| bcchfrq_nc3                | '00000'B                                                    |          |
| bsic_nc3                   | '000000'B                                                   |          |
| rxlev_nc4                  | '000000'B                                                   |          |
| bcchfrq_nc4                | '00000'B                                                    |          |
| bsic_nc4                   | '000000'B                                                   |          |
| rxlev_nc5                  | '000000'B                                                   |          |
| bcchfrq_nc5                | '00000'B                                                    |          |
| bsic_nc5                   | '000000'B                                                   |          |
| rxlev_nc6                  | '000000'B                                                   |          |
| bcchfrq_nc6                | '00000'B                                                    |          |
| bsic_nc6                   | '000000'B                                                   |          |
| <b>Detailed Comments:</b>  |                                                             |          |

| Structured Type Constraint |                                              |          |
|----------------------------|----------------------------------------------|----------|
| <b>Constraint Name:</b>    | MsrResult_02                                 |          |
| <b>Structured Type:</b>    | MSRR                                         |          |
| <b>Derivation Path:</b>    |                                              |          |
| <b>Comments:</b>           | A measurement results IE matching any value. |          |
| Element Name               | Element Value                                | Comments |
| ba_used                    | ?                                            |          |
| dtx_used                   | '0'B                                         |          |
| rxlev_fsc                  | ?                                            |          |
| spr1                       | '0'B                                         |          |
| meas_valid                 | ?                                            |          |
| rxlev_ssc                  | ?                                            |          |
| spr2                       | '0'B                                         |          |
| rxqual_fsc                 | ?                                            |          |
| rxqual_ssc                 | ?                                            |          |
| no_nc                      | ?                                            |          |
| rxlev_nc1                  | *                                            |          |
| bcchfrq_nc1                | *                                            |          |
| bsic_nc1                   | *                                            |          |
| rxlev_nc2                  | *                                            |          |
| bcchfrq_nc2                | *                                            |          |
| bsic_nc2                   | *                                            |          |
| rxlev_nc3                  | *                                            |          |
| bcchfrq_nc3                | *                                            |          |
| bsic_nc3                   | *                                            |          |
| rxlev_nc4                  | *                                            |          |
| bcchfrq_nc4                | *                                            |          |
| bsic_nc4                   | *                                            |          |
| rxlev_nc5                  | *                                            |          |
| bcchfrq_nc5                | *                                            |          |
| bsic_nc5                   | *                                            |          |
| rxlev_nc6                  | *                                            |          |
| bcchfrq_nc6                | *                                            |          |
| bsic_nc6                   | *                                            |          |
| <b>Detailed Comments:</b>  |                                              |          |

| <b>Structured Type Constraint</b>                                           |               |          |
|-----------------------------------------------------------------------------|---------------|----------|
| <b>Constraint Name:</b> MsrResult_03                                        |               |          |
| <b>Structured Type:</b> MSRR                                                |               |          |
| <b>Derivation Path:</b>                                                     |               |          |
| <b>Comments:</b> A measurement results IE containing 6 measurement results. |               |          |
| Element Name                                                                | Element Value | Comments |
| ba_used                                                                     | '1'B          |          |
| dtx_used                                                                    | '0'B          |          |
| rxlev_fsc                                                                   | ?             |          |
| spr1                                                                        | '0'B          |          |
| meas_valid                                                                  | '0'B          |          |
| rxlev_ssc                                                                   | ?             |          |
| spr2                                                                        | '0'B          |          |
| rxqual_fsc                                                                  | ?             |          |
| rxqual_ssc                                                                  | ?             |          |
| no_nc                                                                       | '110'B        |          |
| rxlev_nc1                                                                   | ?             |          |
| bcchfrq_nc1                                                                 | ?             |          |
| bsic_nc1                                                                    | ?             |          |
| rxlev_nc2                                                                   | ?             |          |
| bcchfrq_nc2                                                                 | ?             |          |
| bsic_nc2                                                                    | ?             |          |
| rxlev_nc3                                                                   | ?             |          |
| bcchfrq_nc3                                                                 | ?             |          |
| bsic_nc3                                                                    | ?             |          |
| rxlev_nc4                                                                   | ?             |          |
| bcchfrq_nc4                                                                 | ?             |          |
| bsic_nc4                                                                    | ?             |          |
| rxlev_nc5                                                                   | ?             |          |
| bcchfrq_nc5                                                                 | ?             |          |
| bsic_nc5                                                                    | ?             |          |
| rxlev_nc6                                                                   | ?             |          |
| bcchfrq_nc6                                                                 | ?             |          |
| bsic_nc6                                                                    | ?             |          |
| <b>Detailed Comments:</b>                                                   |               |          |

| <b>Structured Type Constraint</b> |                                                                     |          |
|-----------------------------------|---------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>           | MsrResult_03e1                                                      |          |
| <b>Structured Type:</b>           | MSRR                                                                |          |
| <b>Derivation Path:</b>           |                                                                     |          |
| <b>Comments:</b>                  | A measurement results IE containing 6 measurement results for EGSM. |          |
| Element Name                      | Element Value                                                       | Comments |
| ba_used                           | '1'B                                                                |          |
| dtx_used                          | '0'B                                                                |          |
| rxlev_fsc                         | ?                                                                   |          |
| spr1                              | '0'B                                                                |          |
| meas_valid                        | '0'B                                                                |          |
| rxlev_ssc                         | ?                                                                   |          |
| spr2                              | '0'B                                                                |          |
| rxqual_fsc                        | ?                                                                   |          |
| rxqual_ssc                        | ?                                                                   |          |
| no_nc                             | '110'B                                                              |          |
| rxlev_nc1                         | ?                                                                   |          |
| bcchfrq_nc1                       | '00001'B                                                            |          |
| bsic_nc1                          | '001011'B                                                           |          |
| rxlev_nc2                         | ?                                                                   |          |
| bcchfrq_nc2                       | '00010'B                                                            |          |
| bsic_nc2                          | '001111'B                                                           |          |
| rxlev_nc3                         | ?                                                                   |          |
| bcchfrq_nc3                       | '00100'B                                                            |          |
| bsic_nc3                          | '001101'B                                                           |          |
| rxlev_nc4                         | ?                                                                   |          |
| bcchfrq_nc4                       | '00101'B                                                            |          |
| bsic_nc4                          | '001001'B                                                           |          |
| rxlev_nc5                         | ?                                                                   |          |
| bcchfrq_nc5                       | '00110'B                                                            |          |
| bsic_nc5                          | '001111'B                                                           |          |
| rxlev_nc6                         | ?                                                                   |          |
| bcchfrq_nc6                       | '00111'B                                                            |          |
| bsic_nc6                          | '001101'B                                                           |          |
| <b>Detailed Comments:</b>         |                                                                     |          |

| Structured Type Constraint |                                                                     |          |
|----------------------------|---------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MsrResult_03e2                                                      |          |
| <b>Structured Type:</b>    | MSRR                                                                |          |
| <b>Derivation Path:</b>    |                                                                     |          |
| <b>Comments:</b>           | A measurement results IE containing 6 measurement results for EGSM. |          |
| Element Name               | Element Value                                                       | Comments |
| ba_used                    | '1'B                                                                |          |
| dtx_used                   | '0'B                                                                |          |
| rxlev_fsc                  | ?                                                                   |          |
| spr1                       | '0'B                                                                |          |
| meas_valid                 | '0'B                                                                |          |
| rxlev_ssc                  | ?                                                                   |          |
| spr2                       | '0'B                                                                |          |
| rxqual_fsc                 | ?                                                                   |          |
| rxqual_ssc                 | ?                                                                   |          |
| no_nc                      | '110'B                                                              |          |
| rxlev_nc1                  | ?                                                                   |          |
| bcchfrq_nc1                | '00010'B                                                            |          |
| bsic_nc1                   | '001011'B                                                           |          |
| rxlev_nc2                  | ?                                                                   |          |
| bcchfrq_nc2                | '00011'B                                                            |          |
| bsic_nc2                   | '001111'B                                                           |          |
| rxlev_nc3                  | ?                                                                   |          |
| bcchfrq_nc3                | '00100'B                                                            |          |
| bsic_nc3                   | '001101'B                                                           |          |
| rxlev_nc4                  | ?                                                                   |          |
| bcchfrq_nc4                | '00101'B                                                            |          |
| bsic_nc4                   | '001001'B                                                           |          |
| rxlev_nc5                  | ?                                                                   |          |
| bcchfrq_nc5                | '00110'B                                                            |          |
| bsic_nc5                   | '001111'B                                                           |          |
| rxlev_nc6                  | ?                                                                   |          |
| bcchfrq_nc6                | '00001'B                                                            |          |
| bsic_nc6                   | '001100'B                                                           |          |
| <b>Detailed Comments:</b>  |                                                                     |          |

| Structured Type Constraint |                                                                     |          |
|----------------------------|---------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MsrResult_03e3                                                      |          |
| <b>Structured Type:</b>    | MSRR                                                                |          |
| <b>Derivation Path:</b>    |                                                                     |          |
| <b>Comments:</b>           | A measurement results IE containing 6 measurement results for EGSM. |          |
| Element Name               | Element Value                                                       | Comments |
| ba_used                    | '1'B                                                                |          |
| dtx_used                   | '0'B                                                                |          |
| rxlev_fsc                  | ?                                                                   |          |
| spr1                       | '0'B                                                                |          |
| meas_valid                 | '0'B                                                                |          |
| rxlev_ssc                  | ?                                                                   |          |
| spr2                       | '0'B                                                                |          |
| rxqual_fsc                 | ?                                                                   |          |
| rxqual_ssc                 | ?                                                                   |          |
| no_nc                      | '110'B                                                              |          |
| rxlev_nc1                  | ?                                                                   |          |
| bcchfrq_nc1                | '00010'B                                                            |          |
| bsic_nc1                   | '001011'B                                                           |          |
| rxlev_nc2                  | ?                                                                   |          |
| bcchfrq_nc2                | '00011'B                                                            |          |
| bsic_nc2                   | '001111'B                                                           |          |
| rxlev_nc3                  | ?                                                                   |          |
| bcchfrq_nc3                | '00110'B                                                            |          |
| bsic_nc3                   | '001001'B                                                           |          |
| rxlev_nc4                  | ?                                                                   |          |
| bcchfrq_nc4                | '01000'B                                                            |          |
| bsic_nc4                   | '001111'B                                                           |          |
| rxlev_nc5                  | ?                                                                   |          |
| bcchfrq_nc5                | '01000'B                                                            |          |
| bsic_nc5                   | '001101'B                                                           |          |
| rxlev_nc6                  | ?                                                                   |          |
| bcchfrq_nc6                | '00001'B                                                            |          |
| bsic_nc6                   | '001100'B                                                           |          |
| <b>Detailed Comments:</b>  |                                                                     |          |



| Structured Type Constraint |                                                                     |          |
|----------------------------|---------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MsrResult_03e4                                                      |          |
| <b>Structured Type:</b>    | MSRR                                                                |          |
| <b>Derivation Path:</b>    |                                                                     |          |
| <b>Comments:</b>           | A measurement results IE containing 6 measurement results for EGSM. |          |
| Element Name               | Element Value                                                       | Comments |
| ba_used                    | '1'B                                                                |          |
| dtx_used                   | '0'B                                                                |          |
| rxlev_fsc                  | ?                                                                   |          |
| spr1                       | '0'B                                                                |          |
| meas_valid                 | '0'B                                                                |          |
| rxlev_ssc                  | ?                                                                   |          |
| spr2                       | '0'B                                                                |          |
| rxqual_fsc                 | ?                                                                   |          |
| rxqual_ssc                 | ?                                                                   |          |
| no_nc                      | '110'B                                                              |          |
| rxlev_nc1                  | ?                                                                   |          |
| bcchfrq_nc1                | '00010'B                                                            |          |
| bsic_nc1                   | '001011'B                                                           |          |
| rxlev_nc2                  | ?                                                                   |          |
| bcchfrq_nc2                | '00011'B                                                            |          |
| bsic_nc2                   | '001111'B                                                           |          |
| rxlev_nc3                  | ?                                                                   |          |
| bcchfrq_nc3                | '00110'B                                                            |          |
| bsic_nc3                   | '001101'B                                                           |          |
| rxlev_nc4                  | ?                                                                   |          |
| bcchfrq_nc4                | '00111'B                                                            |          |
| bsic_nc4                   | '001001'B                                                           |          |
| rxlev_nc5                  | ?                                                                   |          |
| bcchfrq_nc5                | '01000'B                                                            |          |
| bsic_nc5                   | '001111'B                                                           |          |
| rxlev_nc6                  | ?                                                                   |          |
| bcchfrq_nc6                | '00001'B                                                            |          |
| bsic_nc6                   | '001100'B                                                           |          |
| <b>Detailed Comments:</b>  |                                                                     |          |

| Structured Type Constraint |                                                                     |          |
|----------------------------|---------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MsrResult_03e5                                                      |          |
| <b>Structured Type:</b>    | MSRR                                                                |          |
| <b>Derivation Path:</b>    |                                                                     |          |
| <b>Comments:</b>           | A measurement results IE containing 6 measurement results for EGSM. |          |
| Element Name               | Element Value                                                       | Comments |
| ba_used                    | '1'B                                                                |          |
| dtx_used                   | '0'B                                                                |          |
| rxlev_fsc                  | ?                                                                   |          |
| spr1                       | '0'B                                                                |          |
| meas_valid                 | '0'B                                                                |          |
| rxlev_ssc                  | ?                                                                   |          |
| spr2                       | '0'B                                                                |          |
| rxqual_fsc                 | ?                                                                   |          |
| rxqual_ssc                 | ?                                                                   |          |
| no_nc                      | '110'B                                                              |          |
| rxlev_nc1                  | ?                                                                   |          |
| bcchfrq_nc1                | '00010'B                                                            |          |
| bsic_nc1                   | '001011'B                                                           |          |
| rxlev_nc2                  | ?                                                                   |          |
| bcchfrq_nc2                | '00011'B                                                            |          |
| bsic_nc2                   | '001111'B                                                           |          |
| rxlev_nc3                  | ?                                                                   |          |
| bcchfrq_nc3                | '00101'B                                                            |          |
| bsic_nc3                   | '001101'B                                                           |          |
| rxlev_nc4                  | ?                                                                   |          |
| bcchfrq_nc4                | '00110'B                                                            |          |
| bsic_nc4                   | '001001'B                                                           |          |
| rxlev_nc5                  | ?                                                                   |          |
| bcchfrq_nc5                | '00111'B                                                            |          |
| bsic_nc5                   | '001111'B                                                           |          |
| rxlev_nc6                  | ?                                                                   |          |
| bcchfrq_nc6                | '00001'B                                                            |          |
| bsic_nc6                   | '001100'B                                                           |          |
| <b>Detailed Comments:</b>  |                                                                     |          |

| Structured Type Constraint |                                                            |          |
|----------------------------|------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MsrResult_04                                               |          |
| <b>Structured Type:</b>    | MSRR                                                       |          |
| <b>Derivation Path:</b>    | MsrResult_03.                                              |          |
| <b>Comments:</b>           | A measurement results IE containing 4 measurement results. |          |
| Element Name               | Element Value                                              | Comments |
| no_nc                      | '100'B                                                     |          |
| rxlev_nc5                  | '000000'B                                                  |          |
| bcchfrq_nc5                | '00000'B                                                   |          |
| bsic_nc5                   | '000000'B                                                  |          |
| rxlev_nc6                  | '000000'B                                                  |          |
| bcchfrq_nc6                | '00000'B                                                   |          |
| bsic_nc6                   | '000000'B                                                  |          |
| <b>Detailed Comments:</b>  |                                                            |          |

| Structured Type Constraint |                                                                    |          |
|----------------------------|--------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MsrResult_04e                                                      |          |
| <b>Structured Type:</b>    | MSRR                                                               |          |
| <b>Derivation Path:</b>    | MsrResult_03.                                                      |          |
| <b>Comments:</b>           | A measurement results IE containing 3 measurement results for EGSM |          |
| Element Name               | Element Value                                                      | Comments |
| no_nc                      | '100'B                                                             |          |
| rxlev_nc1                  | ?                                                                  |          |
| bcchfrq_nc1                | '00001'B                                                           |          |
| bsic_nc1                   | '001011'B                                                          |          |
| rxlev_nc2                  | ?                                                                  |          |
| bcchfrq_nc2                | '00011'B                                                           |          |
| bsic_nc2                   | '001101'B                                                          |          |
| rxlev_nc3                  | ?                                                                  |          |
| bcchfrq_nc3                | '00110'B                                                           |          |
| bsic_nc3                   | '001001'B                                                          |          |
| <b>Detailed Comments:</b>  |                                                                    |          |

| Structured Type Constraint |                                                                             |          |
|----------------------------|-----------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MsrResult_05                                                                |          |
| <b>Structured Type:</b>    | MSRR                                                                        |          |
| <b>Derivation Path:</b>    | MsrResult_03.                                                               |          |
| <b>Comments:</b>           | A measurement results IE containing 6 measurement results and DTX was used. |          |
| Element Name               | Element Value                                                               | Comments |
| dtx_used                   | '1'B                                                                        |          |
| <b>Detailed Comments:</b>  |                                                                             |          |

| Structured Type Constraint |                                                                                   |          |
|----------------------------|-----------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MsrResult_06                                                                      |          |
| <b>Structured Type:</b>    | MSRR                                                                              |          |
| <b>Derivation Path:</b>    | MsrResult_03.                                                                     |          |
| <b>Comments:</b>           | A measurement results IE containing 6 measurement results and DTX is not checked. |          |
| Element Name               | Element Value                                                                     | Comments |
| dtx_used                   | ?                                                                                 |          |
| <b>Detailed Comments:</b>  |                                                                                   |          |

| Structured Type Constraint |                                                            |          |
|----------------------------|------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | MsrResult_07                                               |          |
| <b>Structured Type:</b>    | MSRR                                                       |          |
| <b>Derivation Path:</b>    | MsrResult_03.                                              |          |
| <b>Comments:</b>           | A measurement results IE containing 2 measurement results. |          |
| Element Name               | Element Value                                              | Comments |
| ba_used                    | '1'B                                                       |          |
| dtx_used                   | '0'B                                                       |          |
| rxlev_fsc                  | ?                                                          |          |
| spr1                       | '0'B                                                       |          |
| meas_valid                 | '0'B                                                       |          |
| rxlev_ssc                  | ?                                                          |          |
| spr2                       | '0'B                                                       |          |
| rxqual_fsc                 | ?                                                          |          |
| rxqual_ssc                 | ?                                                          |          |
| no_nc                      | '010'B                                                     |          |
| rxlev_nc1                  | ?                                                          |          |
| bcchfrq_nc1                | ?                                                          |          |
| bsic_nc1                   | ?                                                          |          |
| rxlev_nc2                  | ?                                                          |          |
| bcchfrq_nc2                | ?                                                          |          |
| bsic_nc2                   | ?                                                          |          |
| rxlev_nc3                  | '000000'B                                                  |          |
| bcchfrq_nc3                | '00000'B                                                   |          |
| bsic_nc3                   | '000000'B                                                  |          |
| rxlev_nc4                  | '000000'B                                                  |          |
| bcchfrq_nc4                | '00000'B                                                   |          |
| bsic_nc4                   | '000000'B                                                  |          |
| rxlev_nc5                  | '000000'B                                                  |          |
| bcchfrq_nc5                | '00000'B                                                   |          |
| bsic_nc5                   | '000000'B                                                  |          |
| rxlev_nc6                  | '000000'B                                                  |          |
| bcchfrq_nc6                | '00000'B                                                   |          |
| bsic_nc6                   | '000000'B                                                  |          |
| <b>Detailed Comments:</b>  |                                                            |          |

| Structured Type Constraint |                                                                                                                                                                                                                                                                                                        |          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Mtdif_01                                                                                                                                                                                                                                                                                               |          |
| <b>Structured Type:</b>    | MTDIF                                                                                                                                                                                                                                                                                                  |          |
| <b>Derivation Path:</b>    |                                                                                                                                                                                                                                                                                                        |          |
| <b>Comments:</b>           |                                                                                                                                                                                                                                                                                                        |          |
| Element Name               | Element Value                                                                                                                                                                                                                                                                                          | Comments |
| iei                        | '01110111'B                                                                                                                                                                                                                                                                                            |          |
| iel                        | '03'O                                                                                                                                                                                                                                                                                                  |          |
| value                      | (OC_IntToOct(((2*TSPX_k + TSPX_y)<br>MOD 2097152)-2), 3),<br>OC_IntToOct(((2*TSPX_k + TSPX_y)<br>MOD 2097152)-1), 3),<br>OC_IntToOct(((2*TSPX_k + TSPX_y)<br>MOD 2097152), 3),<br>OC_IntToOct(((2*TSPX_k + TSPX_y)<br>MOD 2097152)+1), 3),<br>OC_IntToOct(((2*TSPX_k + TSPX_y)<br>MOD 2097152)+2), 3)) |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                                                                                                                                                        |          |

| Structured Type Constraint |                                                                                                                                                                                                                                                                                                                                          |          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Mtdif_02                                                                                                                                                                                                                                                                                                                                 |          |
| <b>Structured Type:</b>    | MTDIF                                                                                                                                                                                                                                                                                                                                    |          |
| <b>Derivation Path:</b>    |                                                                                                                                                                                                                                                                                                                                          |          |
| <b>Comments:</b>           |                                                                                                                                                                                                                                                                                                                                          |          |
| Element Name               | Element Value                                                                                                                                                                                                                                                                                                                            | Comments |
| iei<br>iel<br>value        | '01110111'B<br>'03'O<br>(OC_IntToOct(((2*TSPX_k2 + TSPX_y2)<br>MOD 2097152)-2), 3),<br>OC_IntToOct(((2*TSPX_k2 + TSPX_y2)<br>MOD 2097152)-1), 3),<br>OC_IntToOct(((2*TSPX_k2 + TSPX_y2)<br>MOD 2097152), 3),<br>OC_IntToOct(((2*TSPX_k2 + TSPX_y2)<br>MOD 2097152)+1), 3),<br>OC_IntToOct(((2*TSPX_k2 + TSPX_y2)<br>MOD 2097152)+2), 3)) |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                                                                                                                                                                                          |          |

| Structured Type Constraint |                                                                                                                                                                                                                                                                                                                                          |          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Mtdif_03                                                                                                                                                                                                                                                                                                                                 |          |
| <b>Structured Type:</b>    | MTDIF                                                                                                                                                                                                                                                                                                                                    |          |
| <b>Derivation Path:</b>    |                                                                                                                                                                                                                                                                                                                                          |          |
| <b>Comments:</b>           |                                                                                                                                                                                                                                                                                                                                          |          |
| Element Name               | Element Value                                                                                                                                                                                                                                                                                                                            | Comments |
| iei<br>iel<br>value        | '01110111'B<br>'03'O<br>(OC_IntToOct(((2*TSPX_k3 + TSPX_y3)<br>MOD 2097152)-2), 3),<br>OC_IntToOct(((2*TSPX_k3 + TSPX_y3)<br>MOD 2097152)-1), 3),<br>OC_IntToOct(((2*TSPX_k3 + TSPX_y3)<br>MOD 2097152), 3),<br>OC_IntToOct(((2*TSPX_k3 + TSPX_y3)<br>MOD 2097152)+1), 3),<br>OC_IntToOct(((2*TSPX_k3 + TSPX_y3)<br>MOD 2097152)+2), 3)) |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                                                                                                                                                                                          |          |

| Structured Type Constraint            |                                                 |          |
|---------------------------------------|-------------------------------------------------|----------|
| <b>Constraint Name:</b>               | NT_BothT_BothNTorT_BothT_BothNT                 |          |
| <b>Structured Type:</b>               | CE                                              |          |
| <b>Derivation Path:</b>               |                                                 |          |
| <b>Comments:</b>                      |                                                 |          |
| Element Name                          | Element Value                                   | Comments |
| TorBothTorBothNT<br>NTorBothTorBothNT | ('00'B, '10'B, '11'B)<br>( '01'B, '10'B, '11'B) |          |
| <b>Detailed Comments:</b>             |                                                 |          |

| Structured Type Constraint |                                |          |
|----------------------------|--------------------------------|----------|
| <b>Constraint Name:</b>    | Pcmd_19(powerlevel: BITSTRING) |          |
| <b>Structured Type:</b>    | PCMD                           |          |
| <b>Derivation Path:</b>    |                                |          |
| <b>Comments:</b>           |                                |          |
| Element Name               | Element Value                  | Comments |
| sprb<br>pl                 | '000'B<br>powerlevel           |          |
| <b>Detailed Comments:</b>  |                                |          |

| Structured Type Constraint |                                                              |          |
|----------------------------|--------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Pcmd_20(powerlevel: BITSTRING)                               |          |
| <b>Structured Type:</b>    | PCMD                                                         |          |
| <b>Derivation Path:</b>    |                                                              |          |
| <b>Comments:</b>           | PowerCmd used in synchronized and non synchronized HO cases. |          |
| Element Name               | Element Value                                                | Comments |
| sprb                       | '011'B                                                       |          |
| pl                         | powerlevel                                                   |          |
| <b>Detailed Comments:</b>  |                                                              |          |

| Structured Type Constraint |                                                    |          |
|----------------------------|----------------------------------------------------|----------|
| <b>Constraint Name:</b>    | PiSi_01                                            |          |
| <b>Structured Type:</b>    | PI_SI                                              |          |
| <b>Derivation Path:</b>    |                                                    |          |
| <b>Comments:</b>           | calling party BCD number with arbitrary spare bits |          |
| Element Name               | Element Value                                      | Comments |
| extb                       | '1'B                                               |          |
| pi                         | '00'B                                              |          |
| sp3b                       | '110'B                                             |          |
| si                         | '00'B                                              |          |
| <b>Detailed Comments:</b>  |                                                    |          |

| Structured Type Constraint |                    |          |
|----------------------------|--------------------|----------|
| <b>Constraint Name:</b>    | Pm(pgm: B_2)       |          |
| <b>Structured Type:</b>    | PM                 |          |
| <b>Derivation Path:</b>    |                    |          |
| <b>Comments:</b>           | normal paging mode |          |
| Element Name               | Element Value      | Comments |
| sprb                       | '00'B              |          |
| pgm                        | pgm                |          |
| <b>Detailed Comments:</b>  |                    |          |

| Structured Type Constraint |                                               |          |
|----------------------------|-----------------------------------------------|----------|
| <b>Constraint Name:</b>    | Pm_02                                         |          |
| <b>Structured Type:</b>    | PM                                            |          |
| <b>Derivation Path:</b>    |                                               |          |
| <b>Comments:</b>           | normal paging mode with arbitrary spare bits. |          |
| Element Name               | Element Value                                 | Comments |
| sprb                       | '11'B                                         |          |
| pgm                        | '00'B                                         |          |
| <b>Detailed Comments:</b>  |                                               |          |

| Structured Type Constraint |                                                                                      |          |
|----------------------------|--------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | ProcessUSSData_02(Invkid: OCTETSTRING; prevbits: OCTETSTRING; follbits: OCTETSTRING) |          |
| <b>Structured Type:</b>    | Component_T                                                                          |          |
| <b>Derivation Path:</b>    |                                                                                      |          |
| <b>Comments:</b>           | Return Result for Process Unstructured SS Data                                       |          |
| Element Name               | Element Value                                                                        | Comments |
| comp_part1                 | prevbits                                                                             |          |
| invokeld                   | Invkid                                                                               |          |
| comp_part2                 | follbits                                                                             |          |
| comp_part3                 | OMIT                                                                                 |          |
| comp_part4                 | OMIT                                                                                 |          |
| comp_part5                 | OMIT                                                                                 |          |
| comp_part6                 | OMIT                                                                                 |          |
| comp_part7                 | OMIT                                                                                 |          |
| comp_part8                 | OMIT                                                                                 |          |
| comp_part9                 | OMIT                                                                                 |          |
| comp_part10                | OMIT                                                                                 |          |
| comp_part11                | OMIT                                                                                 |          |
| comp_part12                | OMIT                                                                                 |          |
| <b>Detailed Comments:</b>  |                                                                                      |          |

| Structured Type Constraint |                                                                                         |          |
|----------------------------|-----------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | ProcessUSSRequest_02(Invkid: OCTETSTRING; prevbits: OCTETSTRING; follbits: OCTETSTRING) |          |
| <b>Structured Type:</b>    | Component_T                                                                             |          |
| <b>Derivation Path:</b>    |                                                                                         |          |
| <b>Comments:</b>           | Reject or Return Error for Process Unstructured SS request                              |          |
| Element Name               | Element Value                                                                           | Comments |
| comp_part1                 | prevbits                                                                                |          |
| invokeld                   | Invkid                                                                                  |          |
| comp_part2                 | follbits                                                                                |          |
| comp_part3                 | OMIT                                                                                    |          |
| comp_part4                 | OMIT                                                                                    |          |
| comp_part5                 | OMIT                                                                                    |          |
| comp_part6                 | OMIT                                                                                    |          |
| comp_part7                 | OMIT                                                                                    |          |
| comp_part8                 | OMIT                                                                                    |          |
| comp_part9                 | OMIT                                                                                    |          |
| comp_part10                | OMIT                                                                                    |          |
| comp_part11                | OMIT                                                                                    |          |
| comp_part12                | OMIT                                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                                         |          |

| Structured Type Constraint |                             |          |
|----------------------------|-----------------------------|----------|
| <b>Constraint Name:</b>    | ProgInd_omit                |          |
| <b>Structured Type:</b>    | PI                          |          |
| <b>Derivation Path:</b>    |                             |          |
| <b>Comments:</b>           | Omitted Progress Indicator. |          |
| Element Name               | Element Value               | Comments |
| iei                        | OMIT                        |          |
| iel                        | OMIT                        |          |
| extb3                      | OMIT                        |          |
| cs                         | OMIT                        |          |
| spb                        | OMIT                        |          |
| loc                        | OMIT                        |          |
| extb4                      | OMIT                        |          |
| prd                        | OMIT                        |          |
| <b>Detailed Comments:</b>  |                             |          |

| Structured Type Constraint |                                                                             |          |
|----------------------------|-----------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | ProgInd_01                                                                  |          |
| <b>Structured Type:</b>    | PI                                                                          |          |
| <b>Derivation Path:</b>    |                                                                             |          |
| <b>Comments:</b>           | Progress Indicator with progress description #8 (inband info now available) |          |
| Element Name               | Element Value                                                               | Comments |
| iei                        | '00011110'B                                                                 |          |
| iel                        | '02'O                                                                       |          |
| extb3                      | '1'B                                                                        |          |
| cs                         | '11'B                                                                       |          |
| spb                        | '1'B                                                                        |          |
| loc                        | '1000'B                                                                     |          |
| extb4                      | '1'B                                                                        |          |
| prd                        | '0001000'B                                                                  |          |
| <b>Detailed Comments:</b>  |                                                                             |          |

| Structured Type Constraint |                                                      |          |
|----------------------------|------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | ProgInd_02                                           |          |
| <b>Structured Type:</b>    | PI                                                   |          |
| <b>Derivation Path:</b>    |                                                      |          |
| <b>Comments:</b>           | Progress Indicator containing progress indicator #4. |          |
| Element Name               | Element Value                                        | Comments |
| iei                        | OMIT                                                 |          |
| iel                        | '02'O                                                |          |
| extb3                      | '1'B                                                 |          |
| cs                         | '11'B                                                |          |
| spb                        | '0'B                                                 |          |
| loc                        | '0001'B                                              |          |
| extb4                      | '1'B                                                 |          |
| prd                        | '0000100'B                                           |          |
| <b>Detailed Comments:</b>  |                                                      |          |

| Structured Type Constraint |                                                      |          |
|----------------------------|------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | ProgInd_03                                           |          |
| <b>Structured Type:</b>    | PI                                                   |          |
| <b>Derivation Path:</b>    |                                                      |          |
| <b>Comments:</b>           | Progress Indicator containing progress indicator #8. |          |
| Element Name               | Element Value                                        | Comments |
| iei                        | OMIT                                                 |          |
| iel                        | '02'O                                                |          |
| extb3                      | '1'B                                                 |          |
| cs                         | '11'B                                                |          |
| spb                        | '0'B                                                 |          |
| loc                        | '0001'B                                              |          |
| extb4                      | '1'B                                                 |          |
| prd                        | '0001000'B                                           |          |
| <b>Detailed Comments:</b>  |                                                      |          |



| Structured Type Constraint |                                                      |          |
|----------------------------|------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | ProgInd_03iei                                        |          |
| <b>Structured Type:</b>    | PI                                                   |          |
| <b>Derivation Path:</b>    |                                                      |          |
| <b>Comments:</b>           | Progress Indicator containing progress indicator #8. |          |
| Element Name               | Element Value                                        | Comments |
| iei                        | '00011110'B                                          |          |
| iel                        | '02'O                                                |          |
| extb3                      | '1'B                                                 |          |
| cs                         | '11'B                                                |          |
| spb                        | '0'B                                                 |          |
| loc                        | '0001'B                                              |          |
| extb4                      | '1'B                                                 |          |
| prd                        | '0001000'B                                           |          |
| <b>Detailed Comments:</b>  |                                                      |          |

| Structured Type Constraint |                                                |          |
|----------------------------|------------------------------------------------|----------|
| <b>Constraint Name:</b>    | RachCntrlPara(maxtx: B_2; txint: B_4; re: B_1) |          |
| <b>Structured Type:</b>    | RACHCP                                         |          |
| <b>Derivation Path:</b>    |                                                |          |
| <b>Comments:</b>           | Default value for L 3 testing.                 |          |
| Element Name               | Element Value                                  | Comments |
| maxrtx                     | maxtx                                          |          |
| 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 |                                |          |
|----------------------------|--------------------------------|----------|
| <b>Constraint Name:</b>    | RachCntrlPara_01               |          |
| <b>Structured Type:</b>    | RACHCP                         |          |
| <b>Derivation Path:</b>    |                                |          |
| <b>Comments:</b>           | Default value for L 3 testing. |          |
| Element Name               | Element Value                  | Comments |
| maxrtx                     | '00'B                          |          |
| 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 |                                                  |          |
|----------------------------|--------------------------------------------------|----------|
| <b>Constraint Name:</b>    | RachCntrlPara_r01                                |          |
| <b>Structured Type:</b>    | RACHCP                                           |          |
| <b>Derivation Path:</b>    |                                                  |          |
| <b>Comments:</b>           | Call reestablishment is not allowed in the cell. |          |
| Element Name               | Element Value                                    | Comments |
| maxrtx                     | '00'B                                            |          |
| txint                      | '0010'B                                          |          |
| cba                        | '0'B                                             |          |
| re                         | '1'B                                             |          |
| acc_2                      | '00000'B                                         |          |
| ec                         | '0'B                                             |          |
| acc_1                      | '0000000000'B                                    |          |
| <b>Detailed Comments:</b>  |                                                  |          |

| Structured Type Constraint |                                                                   |          |
|----------------------------|-------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | RegisterSSRslt_01(id: OCTETSTRING)                                |          |
| <b>Structured Type:</b>    | Component_T                                                       |          |
| <b>Derivation Path:</b>    |                                                                   |          |
| <b>Comments:</b>           |                                                                   |          |
| Element Name               | Element Value                                                     | Comments |
| comp_part1                 | 'A21F0201'O                                                       |          |
| invokeld                   | id                                                                |          |
| comp_part2                 | '301B02010AA01604012A3011300F8301<br>10840107850491342143870105'O |          |
| comp_part3                 | OMIT                                                              |          |
| comp_part4                 | OMIT                                                              |          |
| comp_part5                 | OMIT                                                              |          |
| comp_part6                 | OMIT                                                              |          |
| comp_part7                 | OMIT                                                              |          |
| comp_part8                 | OMIT                                                              |          |
| comp_part9                 | OMIT                                                              |          |
| comp_part10                | OMIT                                                              |          |
| comp_part11                | OMIT                                                              |          |
| comp_part12                | OMIT                                                              |          |
| <b>Detailed Comments:</b>  |                                                                   |          |

| Structured Type Constraint |                                                                                    |          |
|----------------------------|------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | RegisterSSRslt_02(id: OCTETSTRING)                                                 |          |
| <b>Structured Type:</b>    | Component_T                                                                        |          |
| <b>Derivation Path:</b>    |                                                                                    |          |
| <b>Comments:</b>           |                                                                                    |          |
| Element Name               | Element Value                                                                      | Comments |
| comp_part1                 | 'A2800201'O                                                                        |          |
| invokeld                   | id                                                                                 |          |
| comp_part2                 | '308002010AA0800401213080308083016<br>08401078504913421430000000000000<br>000000'O |          |
| comp_part3                 | OMIT                                                                               |          |
| comp_part4                 | OMIT                                                                               |          |
| comp_part5                 | OMIT                                                                               |          |
| comp_part6                 | OMIT                                                                               |          |
| comp_part7                 | OMIT                                                                               |          |
| comp_part8                 | OMIT                                                                               |          |
| comp_part9                 | OMIT                                                                               |          |
| comp_part10                | OMIT                                                                               |          |
| comp_part11                | OMIT                                                                               |          |
| comp_part12                | OMIT                                                                               |          |
| <b>Detailed Comments:</b>  |                                                                                    |          |

| <b>Structured Type Constraint</b>                         |               |          |
|-----------------------------------------------------------|---------------|----------|
| <b>Constraint Name:</b> RegisterSSErr_01(id: OCTETSTRING) |               |          |
| <b>Structured Type:</b> Component_T                       |               |          |
| <b>Derivation Path:</b>                                   |               |          |
| <b>Comments:</b>                                          |               |          |
| Element Name                                              | Element Value | Comments |
| comp_part1                                                | 'A3060201'O   |          |
| invokeld                                                  | id            |          |
| comp_part2                                                | '02010A'O     |          |
| comp_part3                                                | OMIT          |          |
| comp_part4                                                | OMIT          |          |
| comp_part5                                                | OMIT          |          |
| comp_part6                                                | OMIT          |          |
| comp_part7                                                | OMIT          |          |
| comp_part8                                                | OMIT          |          |
| comp_part9                                                | OMIT          |          |
| comp_part10                                               | OMIT          |          |
| comp_part11                                               | OMIT          |          |
| comp_part12                                               | OMIT          |          |
| <b>Detailed Comments:</b>                                 |               |          |

| <b>Structured Type Constraint</b>                         |               |          |
|-----------------------------------------------------------|---------------|----------|
| <b>Constraint Name:</b> RegisterSSRej_01(id: OCTETSTRING) |               |          |
| <b>Structured Type:</b> Component_T                       |               |          |
| <b>Derivation Path:</b>                                   |               |          |
| <b>Comments:</b>                                          |               |          |
| Element Name                                              | Element Value | Comments |
| comp_part1                                                | 'A4800201'O   |          |
| invokeld                                                  | id            |          |
| comp_part2                                                | '8101030000'O |          |
| comp_part3                                                | OMIT          |          |
| comp_part4                                                | OMIT          |          |
| comp_part5                                                | OMIT          |          |
| comp_part6                                                | OMIT          |          |
| comp_part7                                                | OMIT          |          |
| comp_part8                                                | OMIT          |          |
| comp_part9                                                | OMIT          |          |
| comp_part10                                               | OMIT          |          |
| comp_part11                                               | OMIT          |          |
| comp_part12                                               | OMIT          |          |
| <b>Detailed Comments:</b>                                 |               |          |

| Structured Type Constraint |                                     |          |
|----------------------------|-------------------------------------|----------|
| <b>Constraint Name:</b>    | RegPasswdSSRslt_01(id: OCTETSTRING) |          |
| <b>Structured Type:</b>    | Component_T                         |          |
| <b>Derivation Path:</b>    |                                     |          |
| <b>Comments:</b>           |                                     |          |
| Element Name               | Element Value                       | Comments |
| comp_part1                 | 'A2800201'O                         |          |
| invokeld                   | id                                  |          |
| comp_part2                 | '308002011112043938373600000000'O   |          |
| comp_part3                 | OMIT                                |          |
| comp_part4                 | OMIT                                |          |
| comp_part5                 | OMIT                                |          |
| comp_part6                 | OMIT                                |          |
| comp_part7                 | OMIT                                |          |
| comp_part8                 | OMIT                                |          |
| comp_part9                 | OMIT                                |          |
| comp_part10                | OMIT                                |          |
| comp_part11                | OMIT                                |          |
| comp_part12                | OMIT                                |          |
| <b>Detailed Comments:</b>  |                                     |          |

| Structured Type Constraint |                                    |          |
|----------------------------|------------------------------------|----------|
| <b>Constraint Name:</b>    | RegPasswdSSErr_01(id: OCTETSTRING) |          |
| <b>Structured Type:</b>    | Component_T                        |          |
| <b>Derivation Path:</b>    |                                    |          |
| <b>Comments:</b>           |                                    |          |
| Element Name               | Element Value                      | Comments |
| comp_part1                 | 'A3060201'O                        |          |
| invokeld                   | id                                 |          |
| comp_part2                 | '020113'O                          |          |
| comp_part3                 | OMIT                               |          |
| comp_part4                 | OMIT                               |          |
| comp_part5                 | OMIT                               |          |
| comp_part6                 | OMIT                               |          |
| comp_part7                 | OMIT                               |          |
| comp_part8                 | OMIT                               |          |
| comp_part9                 | OMIT                               |          |
| comp_part10                | OMIT                               |          |
| comp_part11                | OMIT                               |          |
| comp_part12                | OMIT                               |          |
| <b>Detailed Comments:</b>  |                                    |          |

| Structured Type Constraint |                                    |          |
|----------------------------|------------------------------------|----------|
| <b>Constraint Name:</b>    | RegPasswdSSErr_02(id: OCTETSTRING) |          |
| <b>Structured Type:</b>    | Component_T                        |          |
| <b>Derivation Path:</b>    |                                    |          |
| <b>Comments:</b>           |                                    |          |
| Element Name               | Element Value                      | Comments |
| comp_part1                 | 'A3800201'O                        |          |
| invokeld                   | id                                 |          |
| comp_part2                 | '0201260000'O                      |          |
| comp_part3                 | OMIT                               |          |
| comp_part4                 | OMIT                               |          |
| comp_part5                 | OMIT                               |          |
| comp_part6                 | OMIT                               |          |
| comp_part7                 | OMIT                               |          |
| comp_part8                 | OMIT                               |          |
| comp_part9                 | OMIT                               |          |
| comp_part10                | OMIT                               |          |
| comp_part11                | OMIT                               |          |
| comp_part12                | OMIT                               |          |
| <b>Detailed Comments:</b>  |                                    |          |

| Structured Type Constraint |                                    |          |
|----------------------------|------------------------------------|----------|
| <b>Constraint Name:</b>    | RegPasswdSSErr_03(id: OCTETSTRING) |          |
| <b>Structured Type:</b>    | Component_T                        |          |
| <b>Derivation Path:</b>    |                                    |          |
| <b>Comments:</b>           |                                    |          |
| Element Name               | Element Value                      | Comments |
| comp_part1                 | 'A3090201'O                        |          |
| invokeld                   | id                                 |          |
| comp_part2                 | '0201250A0102'O                    |          |
| comp_part3                 | OMIT                               |          |
| comp_part4                 | OMIT                               |          |
| comp_part5                 | OMIT                               |          |
| comp_part6                 | OMIT                               |          |
| comp_part7                 | OMIT                               |          |
| comp_part8                 | OMIT                               |          |
| comp_part9                 | OMIT                               |          |
| comp_part10                | OMIT                               |          |
| comp_part11                | OMIT                               |          |
| comp_part12                | OMIT                               |          |
| <b>Detailed Comments:</b>  |                                    |          |

| Structured Type Constraint |                                                   |          |
|----------------------------|---------------------------------------------------|----------|
| <b>Constraint Name:</b>    | SerialNumber_01                                   |          |
| <b>Structured Type:</b>    | SERIAL_NUMBER                                     |          |
| <b>Derivation Path:</b>    |                                                   |          |
| <b>Comments:</b>           | Serial number for first SMSCB,<br>GSM 3.41, 9.3.2 |          |
| Element Name               | Element Value                                     | Comments |
| gs                         | '00'B                                             |          |
| message_code               | '0000000000'B                                     |          |
| update_number              | '0000'B                                           |          |
| <b>Detailed Comments:</b>  |                                                   |          |

| Structured Type Constraint |                                                    |          |
|----------------------------|----------------------------------------------------|----------|
| <b>Constraint Name:</b>    | SerialNumber_02                                    |          |
| <b>Structured Type:</b>    | SERIAL_NUMBER                                      |          |
| <b>Derivation Path:</b>    |                                                    |          |
| <b>Comments:</b>           | Serial number for second SMSCB,<br>GSM 3.41, 9.3.2 |          |
| Element Name               | Element Value                                      | Comments |
| gs                         | '00'B                                              |          |
| message_code               | '0000000001'B                                      |          |
| update_number              | '0000'B                                            |          |
| <b>Detailed Comments:</b>  |                                                    |          |

| Structured Type Constraint |                                                                                                 |          |
|----------------------------|-------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | SerialNumber_03                                                                                 |          |
| <b>Structured Type:</b>    | SERIAL_NUMBER                                                                                   |          |
| <b>Derivation Path:</b>    |                                                                                                 |          |
| <b>Comments:</b>           | Serial number for third SMSCB, same message code as second SMSCB but updated<br>GSM 3.41, 9.3.2 |          |
| Element Name               | Element Value                                                                                   | Comments |
| gs                         | '00'B                                                                                           |          |
| message_code               | '0000000001'B                                                                                   |          |
| update_number              | '0001'B                                                                                         |          |
| <b>Detailed Comments:</b>  |                                                                                                 |          |

| Structured Type Constraint |                                                                                                           |          |
|----------------------------|-----------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | USSDRReq_01 (Invkid: OCTETSTRING; prevbits: OCTETSTRING; follbits: OCTETSTRING;<br>ussdString: IA5String) |          |
| <b>Structured Type:</b>    | Component_T                                                                                               |          |
| <b>Derivation Path:</b>    |                                                                                                           |          |
| <b>Comments:</b>           | ReturnResult for Process Unstructured SS request                                                          |          |
| Element Name               | Element Value                                                                                             | Comments |
| comp_part1                 | prevbits                                                                                                  |          |
| invokeld                   | Invkid                                                                                                    |          |
| comp_part2                 | follbits                                                                                                  |          |
| comp_part3                 | OC_CodingOfUssdString(ussdString)                                                                         |          |
| comp_part4                 | OMIT                                                                                                      |          |
| comp_part5                 | OMIT                                                                                                      |          |
| comp_part6                 | OMIT                                                                                                      |          |
| comp_part7                 | OMIT                                                                                                      |          |
| comp_part8                 | OMIT                                                                                                      |          |
| comp_part9                 | OMIT                                                                                                      |          |
| comp_part10                | OMIT                                                                                                      |          |
| comp_part11                | OMIT                                                                                                      |          |
| comp_part12                | OMIT                                                                                                      |          |
| <b>Detailed Comments:</b>  |                                                                                                           |          |

| Structured Type Constraint |                                                        |          |
|----------------------------|--------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | USSDReq_03(Invkid: OCTETSTRING; ussdstring: IA5String) |          |
| <b>Structured Type:</b>    | Component_T                                            |          |
| <b>Derivation Path:</b>    |                                                        |          |
| <b>Comments:</b>           | Invoke for UnstructuredSS-Request                      |          |
| Element Name               | Element Value                                          | Comments |
| comp_part1                 | 'A11E0201'O                                            |          |
| invokeld                   | Invkid                                                 |          |
| comp_part2                 | '02013C0F'O                                            |          |
| comp_part3                 | OC_CodingOfUssdString(ussdstring)                      |          |
| comp_part4                 | OMIT                                                   |          |
| comp_part5                 | OMIT                                                   |          |
| comp_part6                 | OMIT                                                   |          |
| comp_part7                 | OMIT                                                   |          |
| comp_part8                 | OMIT                                                   |          |
| comp_part9                 | OMIT                                                   |          |
| comp_part10                | OMIT                                                   |          |
| comp_part11                | OMIT                                                   |          |
| comp_part12                | OMIT                                                   |          |
| <b>Detailed Comments:</b>  |                                                        |          |

| Structured Type Constraint |                                 |          |
|----------------------------|---------------------------------|----------|
| <b>Constraint Name:</b>    | USSDReq_06(Invkid: OCTETSTRING) |          |
| <b>Structured Type:</b>    | Component_T                     |          |
| <b>Derivation Path:</b>    |                                 |          |
| <b>Comments:</b>           | Unstructured SS - Request       |          |
| Element Name               | Element Value                   | Comments |
| comp_part1                 | 'A2030201'O                     |          |
| invokeld                   | Invkid                          |          |
| comp_part2                 | OMIT                            |          |
| comp_part3                 | OMIT                            |          |
| comp_part4                 | OMIT                            |          |
| comp_part5                 | OMIT                            |          |
| comp_part6                 | OMIT                            |          |
| comp_part7                 | OMIT                            |          |
| comp_part8                 | OMIT                            |          |
| comp_part9                 | OMIT                            |          |
| comp_part10                | OMIT                            |          |
| comp_part11                | OMIT                            |          |
| comp_part12                | OMIT                            |          |
| <b>Detailed Comments:</b>  |                                 |          |

| Structured Type Constraint                              |                                                         |          |
|---------------------------------------------------------|---------------------------------------------------------|----------|
| <b>Constraint Name:</b> EraseSSRslt_01(id: OCTETSTRING) |                                                         |          |
| <b>Structured Type:</b> Component_T                     |                                                         |          |
| <b>Derivation Path:</b>                                 |                                                         |          |
| <b>Comments:</b>                                        |                                                         |          |
| Element Name                                            | Element Value                                           | Comments |
| comp_part1                                              | 'A21D0201'O                                             |          |
| invokeld                                                | id                                                      |          |
| comp_part2                                              | '301802010BA08004012830803080830160840104000000000000'O |          |
| comp_part3                                              | OMIT                                                    |          |
| comp_part4                                              | OMIT                                                    |          |
| comp_part5                                              | OMIT                                                    |          |
| comp_part6                                              | OMIT                                                    |          |
| comp_part7                                              | OMIT                                                    |          |
| comp_part8                                              | OMIT                                                    |          |
| comp_part9                                              | OMIT                                                    |          |
| comp_part10                                             | OMIT                                                    |          |
| comp_part11                                             | OMIT                                                    |          |
| comp_part12                                             | OMIT                                                    |          |
| <b>Detailed Comments:</b>                               |                                                         |          |

| Structured Type Constraint                              |                                       |          |
|---------------------------------------------------------|---------------------------------------|----------|
| <b>Constraint Name:</b> EraseSSRslt_02(id: OCTETSTRING) |                                       |          |
| <b>Structured Type:</b> Component_T                     |                                       |          |
| <b>Derivation Path:</b>                                 |                                       |          |
| <b>Comments:</b>                                        |                                       |          |
| Element Name                                            | Element Value                         | Comments |
| comp_part1                                              | 'A2140201'O                           |          |
| invokeld                                                | id                                    |          |
| comp_part2                                              | '300F02010BA00A04012B30053003840104'O |          |
| comp_part3                                              | OMIT                                  |          |
| comp_part4                                              | OMIT                                  |          |
| comp_part5                                              | OMIT                                  |          |
| comp_part6                                              | OMIT                                  |          |
| comp_part7                                              | OMIT                                  |          |
| comp_part8                                              | OMIT                                  |          |
| comp_part9                                              | OMIT                                  |          |
| comp_part10                                             | OMIT                                  |          |
| comp_part11                                             | OMIT                                  |          |
| comp_part12                                             | OMIT                                  |          |
| <b>Detailed Comments:</b>                               |                                       |          |



| Structured Type Constraint |                                |          |
|----------------------------|--------------------------------|----------|
| <b>Constraint Name:</b>    | EraseSSErr_01(id: OCTETSTRING) |          |
| <b>Structured Type:</b>    | Component_T                    |          |
| <b>Derivation Path:</b>    |                                |          |
| <b>Comments:</b>           |                                |          |
| Element Name               | Element Value                  | Comments |
| comp_part1                 | 'A3060201'O                    |          |
| invokeld                   | id                             |          |
| comp_part2                 | '02010B'O                      |          |
| comp_part3                 | OMIT                           |          |
| comp_part4                 | OMIT                           |          |
| comp_part5                 | OMIT                           |          |
| comp_part6                 | OMIT                           |          |
| comp_part7                 | OMIT                           |          |
| comp_part8                 | OMIT                           |          |
| comp_part9                 | OMIT                           |          |
| comp_part10                | OMIT                           |          |
| comp_part11                | OMIT                           |          |
| comp_part12                | OMIT                           |          |
| <b>Detailed Comments:</b>  |                                |          |

| Structured Type Constraint |                                |          |
|----------------------------|--------------------------------|----------|
| <b>Constraint Name:</b>    | EraseSSRej_01(id: OCTETSTRING) |          |
| <b>Structured Type:</b>    | Component_T                    |          |
| <b>Derivation Path:</b>    |                                |          |
| <b>Comments:</b>           |                                |          |
| Element Name               | Element Value                  | Comments |
| comp_part1                 | 'A4800201'O                    |          |
| invokeld                   | id                             |          |
| comp_part2                 | '8101030000'O                  |          |
| comp_part3                 | OMIT                           |          |
| comp_part4                 | OMIT                           |          |
| comp_part5                 | OMIT                           |          |
| comp_part6                 | OMIT                           |          |
| comp_part7                 | OMIT                           |          |
| comp_part8                 | OMIT                           |          |
| comp_part9                 | OMIT                           |          |
| comp_part10                | OMIT                           |          |
| comp_part11                | OMIT                           |          |
| comp_part12                | OMIT                           |          |
| <b>Detailed Comments:</b>  |                                |          |

| Structured Type Constraint |                                                     |          |
|----------------------------|-----------------------------------------------------|----------|
| <b>Constraint Name:</b>    | ActivateSSRslt_01(id: OCTETSTRING)                  |          |
| <b>Structured Type:</b>    | Component_T                                         |          |
| <b>Derivation Path:</b>    |                                                     |          |
| <b>Comments:</b>           | CF all synchronous services                         |          |
| Element Name               | Element Value                                       | Comments |
| comp_part1                 | 'A2800201'O                                         |          |
| invokeld                   | id                                                  |          |
| comp_part2                 | '301402010CA0800401203008300682016884010700000000'O |          |
| comp_part3                 | OMIT                                                |          |
| comp_part4                 | OMIT                                                |          |
| comp_part5                 | OMIT                                                |          |
| comp_part6                 | OMIT                                                |          |
| comp_part7                 | OMIT                                                |          |
| comp_part8                 | OMIT                                                |          |
| comp_part9                 | OMIT                                                |          |
| comp_part10                | OMIT                                                |          |
| comp_part11                | OMIT                                                |          |
| comp_part12                | OMIT                                                |          |
| <b>Detailed Comments:</b>  |                                                     |          |

| Structured Type Constraint |                                               |          |
|----------------------------|-----------------------------------------------|----------|
| <b>Constraint Name:</b>    | ActivateSSRslt_02(id: OCTETSTRING)            |          |
| <b>Structured Type:</b>    | Component_T                                   |          |
| <b>Derivation Path:</b>    |                                               |          |
| <b>Comments:</b>           | CFU all basic services                        |          |
| Element Name               | Element Value                                 | Comments |
| comp_part1                 | 'A2180201'O                                   |          |
| invokeld                   | id                                            |          |
| comp_part2                 | '308002010CA0800401213005300384010700000000'O |          |
| comp_part3                 | OMIT                                          |          |
| comp_part4                 | OMIT                                          |          |
| comp_part5                 | OMIT                                          |          |
| comp_part6                 | OMIT                                          |          |
| comp_part7                 | OMIT                                          |          |
| comp_part8                 | OMIT                                          |          |
| comp_part9                 | OMIT                                          |          |
| comp_part10                | OMIT                                          |          |
| comp_part11                | OMIT                                          |          |
| comp_part12                | OMIT                                          |          |
| <b>Detailed Comments:</b>  |                                               |          |

| <b>Structured Type Constraint</b> |                                                     |          |
|-----------------------------------|-----------------------------------------------------|----------|
| <b>Constraint Name:</b>           | ActivateSSRslt_03(id: OCTETSTRING)                  |          |
| <b>Structured Type:</b>           | Component_T                                         |          |
| <b>Derivation Path:</b>           |                                                     |          |
| <b>Comments:</b>                  | BAOC all synchronous services                       |          |
| Element Name                      | Element Value                                       | Comments |
| comp_part1                        | 'A21B0201'O                                         |          |
| invokeld                          | id                                                  |          |
| comp_part2                        | '308002010CA1800401923008300682016884010700000000'O |          |
| comp_part3                        | OMIT                                                |          |
| comp_part4                        | OMIT                                                |          |
| comp_part5                        | OMIT                                                |          |
| comp_part6                        | OMIT                                                |          |
| comp_part7                        | OMIT                                                |          |
| comp_part8                        | OMIT                                                |          |
| comp_part9                        | OMIT                                                |          |
| comp_part10                       | OMIT                                                |          |
| comp_part11                       | OMIT                                                |          |
| comp_part12                       | OMIT                                                |          |
| <b>Detailed Comments:</b>         |                                                     |          |

| <b>Structured Type Constraint</b> |                                               |          |
|-----------------------------------|-----------------------------------------------|----------|
| <b>Constraint Name:</b>           | ActivateSSRslt_04(id: OCTETSTRING)            |          |
| <b>Structured Type:</b>           | Component_T                                   |          |
| <b>Derivation Path:</b>           |                                               |          |
| <b>Comments:</b>                  | BICRoam for all basic service groups.         |          |
| Element Name                      | Element Value                                 | Comments |
| comp_part1                        | 'A2180201'O                                   |          |
| invokeld                          | id                                            |          |
| comp_part2                        | '301302010CA10E04019B3080308084010700000000'O |          |
| comp_part3                        | OMIT                                          |          |
| comp_part4                        | OMIT                                          |          |
| comp_part5                        | OMIT                                          |          |
| comp_part6                        | OMIT                                          |          |
| comp_part7                        | OMIT                                          |          |
| comp_part8                        | OMIT                                          |          |
| comp_part9                        | OMIT                                          |          |
| comp_part10                       | OMIT                                          |          |
| comp_part11                       | OMIT                                          |          |
| comp_part12                       | OMIT                                          |          |
| <b>Detailed Comments:</b>         |                                               |          |

| Structured Type Constraint |                                   |          |
|----------------------------|-----------------------------------|----------|
| <b>Constraint Name:</b>    | ActivateSSErr_01(id: OCTETSTRING) |          |
| <b>Structured Type:</b>    | Component_T                       |          |
| <b>Derivation Path:</b>    |                                   |          |
| <b>Comments:</b>           | BOIC                              |          |
| Element Name               | Element Value                     | Comments |
| comp_part1                 | 'A3060201'O                       |          |
| invokeld                   | id                                |          |
| comp_part2                 | '020113'O                         |          |
| comp_part3                 | OMIT                              |          |
| comp_part4                 | OMIT                              |          |
| comp_part5                 | OMIT                              |          |
| comp_part6                 | OMIT                              |          |
| comp_part7                 | OMIT                              |          |
| comp_part8                 | OMIT                              |          |
| comp_part9                 | OMIT                              |          |
| comp_part10                | OMIT                              |          |
| comp_part11                | OMIT                              |          |
| comp_part12                | OMIT                              |          |
| <b>Detailed Comments:</b>  |                                   |          |

| Structured Type Constraint |                                   |          |
|----------------------------|-----------------------------------|----------|
| <b>Constraint Name:</b>    | ActivateSSErr_02(id: OCTETSTRING) |          |
| <b>Structured Type:</b>    | Component_T                       |          |
| <b>Derivation Path:</b>    |                                   |          |
| <b>Comments:</b>           | BOIC                              |          |
| Element Name               | Element Value                     | Comments |
| comp_part1                 | 'A3800201'O                       |          |
| invokeld                   | id                                |          |
| comp_part2                 | '0201260000'O                     |          |
| comp_part3                 | OMIT                              |          |
| comp_part4                 | OMIT                              |          |
| comp_part5                 | OMIT                              |          |
| comp_part6                 | OMIT                              |          |
| comp_part7                 | OMIT                              |          |
| comp_part8                 | OMIT                              |          |
| comp_part9                 | OMIT                              |          |
| comp_part10                | OMIT                              |          |
| comp_part11                | OMIT                              |          |
| comp_part12                | OMIT                              |          |
| <b>Detailed Comments:</b>  |                                   |          |

| <b>Structured Type Constraint</b> |                                                     |          |
|-----------------------------------|-----------------------------------------------------|----------|
| <b>Constraint Name:</b>           | DeactivateSSRslt_01(id: OCTETSTRING)                |          |
| <b>Structured Type:</b>           | Component_T                                         |          |
| <b>Derivation Path:</b>           |                                                     |          |
| <b>Comments:</b>                  | CFC speech                                          |          |
| Element Name                      | Element Value                                       | Comments |
| comp_part1                        | 'A21B0201'O                                         |          |
| invokeld                          | id                                                  |          |
| comp_part2                        | '301602010DA0800401283080300683011084010600000000'O |          |
| comp_part3                        | OMIT                                                |          |
| comp_part4                        | OMIT                                                |          |
| comp_part5                        | OMIT                                                |          |
| comp_part6                        | OMIT                                                |          |
| comp_part7                        | OMIT                                                |          |
| comp_part8                        | OMIT                                                |          |
| comp_part9                        | OMIT                                                |          |
| comp_part10                       | OMIT                                                |          |
| comp_part11                       | OMIT                                                |          |
| comp_part12                       | OMIT                                                |          |
| <b>Detailed Comments:</b>         |                                                     |          |

| <b>Structured Type Constraint</b> |                                                 |          |
|-----------------------------------|-------------------------------------------------|----------|
| <b>Constraint Name:</b>           | DeactivateSSRslt_02(id: OCTETSTRING)            |          |
| <b>Structured Type:</b>           | Component_T                                     |          |
| <b>Derivation Path:</b>           |                                                 |          |
| <b>Comments:</b>                  | CFNRc all facsimile                             |          |
| Element Name                      | Element Value                                   | Comments |
| comp_part1                        | 'A2190201'O                                     |          |
| invokeld                          | id                                              |          |
| comp_part2                        | '301402010DA00F04012B300A30808301608401060000'O |          |
| comp_part3                        | OMIT                                            |          |
| comp_part4                        | OMIT                                            |          |
| comp_part5                        | OMIT                                            |          |
| comp_part6                        | OMIT                                            |          |
| comp_part7                        | OMIT                                            |          |
| comp_part8                        | OMIT                                            |          |
| comp_part9                        | OMIT                                            |          |
| comp_part10                       | OMIT                                            |          |
| comp_part11                       | OMIT                                            |          |
| comp_part12                       | OMIT                                            |          |
| <b>Detailed Comments:</b>         |                                                 |          |

| Structured Type Constraint |                                      |          |
|----------------------------|--------------------------------------|----------|
| <b>Constraint Name:</b>    | DeactivateSSRslt_03(id: OCTETSTRING) |          |
| <b>Structured Type:</b>    | Component_T                          |          |
| <b>Derivation Path:</b>    |                                      |          |
| <b>Comments:</b>           | DeactivateSSRslt for Speech          |          |
| Element Name               | Element Value                        | Comments |
| comp_part1                 | 'A2800201'O                          |          |
| invokeld                   | id                                   |          |
| comp_part2                 | '300C02010DA107300530038301100000'   |          |
|                            | O                                    |          |
| comp_part3                 | OMIT                                 |          |
| comp_part4                 | OMIT                                 |          |
| comp_part5                 | OMIT                                 |          |
| comp_part6                 | OMIT                                 |          |
| comp_part7                 | OMIT                                 |          |
| comp_part8                 | OMIT                                 |          |
| comp_part9                 | OMIT                                 |          |
| comp_part10                | OMIT                                 |          |
| comp_part11                | OMIT                                 |          |
| comp_part12                | OMIT                                 |          |
| <b>Detailed Comments:</b>  |                                      |          |

| Structured Type Constraint |                                      |          |
|----------------------------|--------------------------------------|----------|
| <b>Constraint Name:</b>    | DeactivateSSRslt_04(id: OCTETSTRING) |          |
| <b>Structured Type:</b>    | Component_T                          |          |
| <b>Derivation Path:</b>    |                                      |          |
| <b>Comments:</b>           | DeactivateSSRslt for all facsimile   |          |
| Element Name               | Element Value                        | Comments |
| comp_part1                 | 'A2800201'O                          |          |
| invokeld                   | id                                   |          |
| comp_part2                 | '300C02010DA107300530038301600000'   |          |
|                            | O                                    |          |
| comp_part3                 | OMIT                                 |          |
| comp_part4                 | OMIT                                 |          |
| comp_part5                 | OMIT                                 |          |
| comp_part6                 | OMIT                                 |          |
| comp_part7                 | OMIT                                 |          |
| comp_part8                 | OMIT                                 |          |
| comp_part9                 | OMIT                                 |          |
| comp_part10                | OMIT                                 |          |
| comp_part11                | OMIT                                 |          |
| comp_part12                | OMIT                                 |          |
| <b>Detailed Comments:</b>  |                                      |          |

| <b>Structured Type Constraint</b>                           |               |          |
|-------------------------------------------------------------|---------------|----------|
| <b>Constraint Name:</b> DeactivateSSErr_01(id: OCTETSTRING) |               |          |
| <b>Structured Type:</b> Component_T                         |               |          |
| <b>Derivation Path:</b>                                     |               |          |
| <b>Comments:</b>                                            |               |          |
| Element Name                                                | Element Value | Comments |
| comp_part1                                                  | 'A3800201'O   |          |
| invokeld                                                    | id            |          |
| comp_part2                                                  | '0201130000'O |          |
| comp_part3                                                  | OMIT          |          |
| comp_part4                                                  | OMIT          |          |
| comp_part5                                                  | OMIT          |          |
| comp_part6                                                  | OMIT          |          |
| comp_part7                                                  | OMIT          |          |
| comp_part8                                                  | OMIT          |          |
| comp_part9                                                  | OMIT          |          |
| comp_part10                                                 | OMIT          |          |
| comp_part11                                                 | OMIT          |          |
| comp_part12                                                 | OMIT          |          |
| <b>Detailed Comments:</b>                                   |               |          |

| <b>Structured Type Constraint</b>                           |               |          |
|-------------------------------------------------------------|---------------|----------|
| <b>Constraint Name:</b> DeactivateSSErr_02(id: OCTETSTRING) |               |          |
| <b>Structured Type:</b> Component_T                         |               |          |
| <b>Derivation Path:</b>                                     |               |          |
| <b>Comments:</b>                                            |               |          |
| Element Name                                                | Element Value | Comments |
| comp_part1                                                  | 'A3060201'O   |          |
| invokeld                                                    | id            |          |
| comp_part2                                                  | '020126'O     |          |
| comp_part3                                                  | OMIT          |          |
| comp_part4                                                  | OMIT          |          |
| comp_part5                                                  | OMIT          |          |
| comp_part6                                                  | OMIT          |          |
| comp_part7                                                  | OMIT          |          |
| comp_part8                                                  | OMIT          |          |
| comp_part9                                                  | OMIT          |          |
| comp_part10                                                 | OMIT          |          |
| comp_part11                                                 | OMIT          |          |
| comp_part12                                                 | OMIT          |          |
| <b>Detailed Comments:</b>                                   |               |          |

| Structured Type Constraint |                                                                                     |          |
|----------------------------|-------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FwdChAdvSS_01                                                                       |          |
| <b>Structured Type:</b>    | Component_T                                                                         |          |
| <b>Derivation Path:</b>    |                                                                                     |          |
| <b>Comments:</b>           | AoC- Charging                                                                       |          |
| Element Name               | Element Value                                                                       | Comments |
| comp_part1                 | 'A1270201'O                                                                         |          |
| invokeld                   | '00'O                                                                               |          |
| comp_part2                 | '02017D3080800172A11881013C820200<br>8C830164840200FA85010086010087020<br>2580000'O |          |
| comp_part3                 | OMIT                                                                                |          |
| comp_part4                 | OMIT                                                                                |          |
| comp_part5                 | OMIT                                                                                |          |
| comp_part6                 | OMIT                                                                                |          |
| comp_part7                 | OMIT                                                                                |          |
| comp_part8                 | OMIT                                                                                |          |
| comp_part9                 | OMIT                                                                                |          |
| comp_part10                | OMIT                                                                                |          |
| comp_part11                | OMIT                                                                                |          |
| comp_part12                | OMIT                                                                                |          |
| <b>Detailed Comments:</b>  |                                                                                     |          |

| Structured Type Constraint |                                                                                 |          |
|----------------------------|---------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FwdChAdvSS_02                                                                   |          |
| <b>Structured Type:</b>    | Component_T                                                                     |          |
| <b>Derivation Path:</b>    |                                                                                 |          |
| <b>Comments:</b>           | AoC- Charging                                                                   |          |
| Element Name               | Element Value                                                                   | Comments |
| comp_part1                 | 'A1250201'O                                                                     |          |
| invokeld                   | '00'O                                                                           |          |
| comp_part2                 | '02017D3080800172A1168101008201008<br>30164840203E885010086010087010000<br>00'O |          |
| comp_part3                 | OMIT                                                                            |          |
| comp_part4                 | OMIT                                                                            |          |
| comp_part5                 | OMIT                                                                            |          |
| comp_part6                 | OMIT                                                                            |          |
| comp_part7                 | OMIT                                                                            |          |
| comp_part8                 | OMIT                                                                            |          |
| comp_part9                 | OMIT                                                                            |          |
| comp_part10                | OMIT                                                                            |          |
| comp_part11                | OMIT                                                                            |          |
| comp_part12                | OMIT                                                                            |          |
| <b>Detailed Comments:</b>  |                                                                                 |          |



| <b>Structured Type Constraint</b>     |                                                                                 |          |
|---------------------------------------|---------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b> FwdChAdvSS_03 |                                                                                 |          |
| <b>Structured Type:</b> Component_T   |                                                                                 |          |
| <b>Derivation Path:</b>               |                                                                                 |          |
| <b>Comments:</b> AoC- Charging        |                                                                                 |          |
| Element Name                          | Element Value                                                                   | Comments |
| comp_part1                            | 'A1290201'O                                                                     |          |
| invokeld                              | '00'O                                                                           |          |
| comp_part2                            | '02017D3080800172A11A810209C4820200A0830200C884021388850100860100870202580000'O |          |
| comp_part3                            | OMIT                                                                            |          |
| comp_part4                            | OMIT                                                                            |          |
| comp_part5                            | OMIT                                                                            |          |
| comp_part6                            | OMIT                                                                            |          |
| comp_part7                            | OMIT                                                                            |          |
| comp_part8                            | OMIT                                                                            |          |
| comp_part9                            | OMIT                                                                            |          |
| comp_part10                           | OMIT                                                                            |          |
| comp_part11                           | OMIT                                                                            |          |
| comp_part12                           | OMIT                                                                            |          |
| <b>Detailed Comments:</b>             |                                                                                 |          |

| <b>Structured Type Constraint</b>     |                                                                       |          |
|---------------------------------------|-----------------------------------------------------------------------|----------|
| <b>Constraint Name:</b> FwdChAdvSS_04 |                                                                       |          |
| <b>Structured Type:</b> Component_T   |                                                                       |          |
| <b>Derivation Path:</b>               |                                                                       |          |
| <b>Comments:</b> AoC- Charging        |                                                                       |          |
| Element Name                          | Element Value                                                         | Comments |
| comp_part1                            | 'A1240201'O                                                           |          |
| invokeld                              | '00'O                                                                 |          |
| comp_part2                            | '02017D3080800172A11581010A82010A83016484010085016486010A87010A0000'O |          |
| comp_part3                            | OMIT                                                                  |          |
| comp_part4                            | OMIT                                                                  |          |
| comp_part5                            | OMIT                                                                  |          |
| comp_part6                            | OMIT                                                                  |          |
| comp_part7                            | OMIT                                                                  |          |
| comp_part8                            | OMIT                                                                  |          |
| comp_part9                            | OMIT                                                                  |          |
| comp_part10                           | OMIT                                                                  |          |
| comp_part11                           | OMIT                                                                  |          |
| comp_part12                           | OMIT                                                                  |          |
| <b>Detailed Comments:</b>             |                                                                       |          |

| Structured Type Constraint |                                                                                     |          |
|----------------------------|-------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FwdChAdvSS_05                                                                       |          |
| <b>Structured Type:</b>    | Component_T                                                                         |          |
| <b>Derivation Path:</b>    |                                                                                     |          |
| <b>Comments:</b>           | AoC- Charging                                                                       |          |
| Element Name               | Element Value                                                                       | Comments |
| comp_part1                 | 'A1270201'O                                                                         |          |
| invokeld                   | '00'O                                                                               |          |
| comp_part2                 | '02017D3080800172A11881017D820201<br>2C830164840200FA85016486010A87020<br>12C0000'O |          |
| comp_part3                 | OMIT                                                                                |          |
| comp_part4                 | OMIT                                                                                |          |
| comp_part5                 | OMIT                                                                                |          |
| comp_part6                 | OMIT                                                                                |          |
| comp_part7                 | OMIT                                                                                |          |
| comp_part8                 | OMIT                                                                                |          |
| comp_part9                 | OMIT                                                                                |          |
| comp_part10                | OMIT                                                                                |          |
| comp_part11                | OMIT                                                                                |          |
| comp_part12                | OMIT                                                                                |          |
| <b>Detailed Comments:</b>  |                                                                                     |          |

| Structured Type Constraint |                                                                               |          |
|----------------------------|-------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FwdChAdvSS_06                                                                 |          |
| <b>Structured Type:</b>    | Component_T                                                                   |          |
| <b>Derivation Path:</b>    |                                                                               |          |
| <b>Comments:</b>           | AoC- Charging                                                                 |          |
| Element Name               | Element Value                                                                 | Comments |
| comp_part1                 | 'A1240201'O                                                                   |          |
| invokeld                   | '00'O                                                                         |          |
| comp_part2                 | '02017D3080800172A1158101008201008<br>301008401008501008601008701000000'<br>O |          |
| comp_part3                 | OMIT                                                                          |          |
| comp_part4                 | OMIT                                                                          |          |
| comp_part5                 | OMIT                                                                          |          |
| comp_part6                 | OMIT                                                                          |          |
| comp_part7                 | OMIT                                                                          |          |
| comp_part8                 | OMIT                                                                          |          |
| comp_part9                 | OMIT                                                                          |          |
| comp_part10                | OMIT                                                                          |          |
| comp_part11                | OMIT                                                                          |          |
| comp_part12                | OMIT                                                                          |          |
| <b>Detailed Comments:</b>  |                                                                               |          |

| Structured Type Constraint |                                                                         |          |
|----------------------------|-------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FwdChAdvSS_07                                                           |          |
| <b>Structured Type:</b>    | Component_T                                                             |          |
| <b>Derivation Path:</b>    |                                                                         |          |
| <b>Comments:</b>           | AoC- Charging                                                           |          |
| Element Name               | Element Value                                                           | Comments |
| comp_part1                 | 'A1250201'O                                                             |          |
| invokeld                   | '00'O                                                                   |          |
| comp_part2                 | '02017D3080800172A116810100820100830164840203E88501008601008701000000'O |          |
| comp_part3                 | OMIT                                                                    |          |
| comp_part4                 | OMIT                                                                    |          |
| comp_part5                 | OMIT                                                                    |          |
| comp_part6                 | OMIT                                                                    |          |
| comp_part7                 | OMIT                                                                    |          |
| comp_part8                 | OMIT                                                                    |          |
| comp_part9                 | OMIT                                                                    |          |
| comp_part10                | OMIT                                                                    |          |
| comp_part11                | OMIT                                                                    |          |
| comp_part12                | OMIT                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                         |          |

| Structured Type Constraint |                                                                             |          |
|----------------------------|-----------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FwdChAdvSS_08                                                               |          |
| <b>Structured Type:</b>    | Component_T                                                                 |          |
| <b>Derivation Path:</b>    |                                                                             |          |
| <b>Comments:</b>           | AoC- Charging                                                               |          |
| Element Name               | Element Value                                                               | Comments |
| comp_part1                 | 'A1270201'O                                                                 |          |
| invokeld                   | '00'O                                                                       |          |
| comp_part2                 | '02017D3080800172A11881013C8202008C830164840200FA850100860100870202580000'O |          |
| comp_part3                 | OMIT                                                                        |          |
| comp_part4                 | OMIT                                                                        |          |
| comp_part5                 | OMIT                                                                        |          |
| comp_part6                 | OMIT                                                                        |          |
| comp_part7                 | OMIT                                                                        |          |
| comp_part8                 | OMIT                                                                        |          |
| comp_part9                 | OMIT                                                                        |          |
| comp_part10                | OMIT                                                                        |          |
| comp_part11                | OMIT                                                                        |          |
| comp_part12                | OMIT                                                                        |          |
| <b>Detailed Comments:</b>  |                                                                             |          |

| Structured Type Constraint |                                                                       |          |
|----------------------------|-----------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FwdChAdvSS_09                                                         |          |
| <b>Structured Type:</b>    | Component_T                                                           |          |
| <b>Derivation Path:</b>    |                                                                       |          |
| <b>Comments:</b>           | AoC- Charging                                                         |          |
| Element Name               | Element Value                                                         | Comments |
| comp_part1                 | 'A1240201'O                                                           |          |
| invokeld                   | '00'O                                                                 |          |
| comp_part2                 | '02017D3080800172A11581010A82010A83016484010085010086010087010A0000'O |          |
| comp_part3                 | OMIT                                                                  |          |
| comp_part4                 | OMIT                                                                  |          |
| comp_part5                 | OMIT                                                                  |          |
| comp_part6                 | OMIT                                                                  |          |
| comp_part7                 | OMIT                                                                  |          |
| comp_part8                 | OMIT                                                                  |          |
| comp_part9                 | OMIT                                                                  |          |
| comp_part10                | OMIT                                                                  |          |
| comp_part11                | OMIT                                                                  |          |
| comp_part12                | OMIT                                                                  |          |
| <b>Detailed Comments:</b>  |                                                                       |          |

| Structured Type Constraint |                                                                             |          |
|----------------------------|-----------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FwdChAdvSS_10                                                               |          |
| <b>Structured Type:</b>    | Component_T                                                                 |          |
| <b>Derivation Path:</b>    |                                                                             |          |
| <b>Comments:</b>           | AoC- Charging                                                               |          |
| Element Name               | Element Value                                                               | Comments |
| comp_part1                 | 'A1270201'O                                                                 |          |
| invokeld                   | '00'O                                                                       |          |
| comp_part2                 | '02017D3080800172A11881017D8202012C830164840200FA8501008601008702012C0000'O |          |
| comp_part3                 | OMIT                                                                        |          |
| comp_part4                 | OMIT                                                                        |          |
| comp_part5                 | OMIT                                                                        |          |
| comp_part6                 | OMIT                                                                        |          |
| comp_part7                 | OMIT                                                                        |          |
| comp_part8                 | OMIT                                                                        |          |
| comp_part9                 | OMIT                                                                        |          |
| comp_part10                | OMIT                                                                        |          |
| comp_part11                | OMIT                                                                        |          |
| comp_part12                | OMIT                                                                        |          |
| <b>Detailed Comments:</b>  |                                                                             |          |

| Structured Type Constraint |                                                                                   |          |
|----------------------------|-----------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FwdChAdvSS_11                                                                     |          |
| <b>Structured Type:</b>    | Component_T                                                                       |          |
| <b>Derivation Path:</b>    |                                                                                   |          |
| <b>Comments:</b>           | AoC- Charging                                                                     |          |
| Element Name               | Element Value                                                                     | Comments |
| comp_part1                 | 'A1260201'O                                                                       |          |
| invokeld                   | '00'O                                                                             |          |
| comp_part2                 | '02017D3080800172A1178101648202011<br>883016484016485010086010087020258<br>0000'O |          |
| comp_part3                 | OMIT                                                                              |          |
| comp_part4                 | OMIT                                                                              |          |
| comp_part5                 | OMIT                                                                              |          |
| comp_part6                 | OMIT                                                                              |          |
| comp_part7                 | OMIT                                                                              |          |
| comp_part8                 | OMIT                                                                              |          |
| comp_part9                 | OMIT                                                                              |          |
| comp_part10                | OMIT                                                                              |          |
| comp_part11                | OMIT                                                                              |          |
| comp_part12                | OMIT                                                                              |          |
| <b>Detailed Comments:</b>  |                                                                                   |          |

| Structured Type Constraint |                                                                                   |          |
|----------------------------|-----------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FwdChAdvSS_12                                                                     |          |
| <b>Structured Type:</b>    | Component_T                                                                       |          |
| <b>Derivation Path:</b>    |                                                                                   |          |
| <b>Comments:</b>           | AoC- Charging                                                                     |          |
| Element Name               | Element Value                                                                     | Comments |
| comp_part1                 | 'A1260201'O                                                                       |          |
| invokeld                   | '00'O                                                                             |          |
| comp_part2                 | '02017D3080800172A1178101648202008<br>C83016484013285010086010087020258<br>0000'O |          |
| comp_part3                 | OMIT                                                                              |          |
| comp_part4                 | OMIT                                                                              |          |
| comp_part5                 | OMIT                                                                              |          |
| comp_part6                 | OMIT                                                                              |          |
| comp_part7                 | OMIT                                                                              |          |
| comp_part8                 | OMIT                                                                              |          |
| comp_part9                 | OMIT                                                                              |          |
| comp_part10                | OMIT                                                                              |          |
| comp_part11                | OMIT                                                                              |          |
| comp_part12                | OMIT                                                                              |          |
| <b>Detailed Comments:</b>  |                                                                                   |          |

| Structured Type Constraint |                                                                                 |          |
|----------------------------|---------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FwdChAdvSS_13                                                                   |          |
| <b>Structured Type:</b>    | Component_T                                                                     |          |
| <b>Derivation Path:</b>    |                                                                                 |          |
| <b>Comments:</b>           | AoC- Charging                                                                   |          |
| Element Name               | Element Value                                                                   | Comments |
| comp_part1                 | 'A1250201'O                                                                     |          |
| invokeld                   | '00'O                                                                           |          |
| comp_part2                 | '02017D3080800172A1168101648202019<br>083016484010085010086010087010000<br>00'O |          |
| comp_part3                 | OMIT                                                                            |          |
| comp_part4                 | OMIT                                                                            |          |
| comp_part5                 | OMIT                                                                            |          |
| comp_part6                 | OMIT                                                                            |          |
| comp_part7                 | OMIT                                                                            |          |
| comp_part8                 | OMIT                                                                            |          |
| comp_part9                 | OMIT                                                                            |          |
| comp_part10                | OMIT                                                                            |          |
| comp_part11                | OMIT                                                                            |          |
| comp_part12                | OMIT                                                                            |          |
| <b>Detailed Comments:</b>  |                                                                                 |          |

| Structured Type Constraint |                                                     |          |
|----------------------------|-----------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FwdChAdvSS_14                                       |          |
| <b>Structured Type:</b>    | Component_T                                         |          |
| <b>Derivation Path:</b>    |                                                     |          |
| <b>Comments:</b>           | AoC- Charging                                       |          |
| Element Name               | Element Value                                       | Comments |
| comp_part1                 | 'A1190201'O                                         |          |
| invokeld                   | '00'O                                               |          |
| comp_part2                 | '02017D3011800172A1808101648202019<br>08301640000'O |          |
| comp_part3                 | OMIT                                                |          |
| comp_part4                 | OMIT                                                |          |
| comp_part5                 | OMIT                                                |          |
| comp_part6                 | OMIT                                                |          |
| comp_part7                 | OMIT                                                |          |
| comp_part8                 | OMIT                                                |          |
| comp_part9                 | OMIT                                                |          |
| comp_part10                | OMIT                                                |          |
| comp_part11                | OMIT                                                |          |
| comp_part12                | OMIT                                                |          |
| <b>Detailed Comments:</b>  |                                                     |          |

| Structured Type Constraint |                                                                                 |          |
|----------------------------|---------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FwdChAdvSS_15                                                                   |          |
| <b>Structured Type:</b>    | Component_T                                                                     |          |
| <b>Derivation Path:</b>    |                                                                                 |          |
| <b>Comments:</b>           | AoC- Charging                                                                   |          |
| Element Name               | Element Value                                                                   | Comments |
| comp_part1                 | 'A1250201'O                                                                     |          |
| invokeld                   | '00'O                                                                           |          |
| comp_part2                 | '02017D3080800172A1168101468202019<br>083016484010085010086010087010000<br>00'O |          |
| comp_part3                 | OMIT                                                                            |          |
| comp_part4                 | OMIT                                                                            |          |
| comp_part5                 | OMIT                                                                            |          |
| comp_part6                 | OMIT                                                                            |          |
| comp_part7                 | OMIT                                                                            |          |
| comp_part8                 | OMIT                                                                            |          |
| comp_part9                 | OMIT                                                                            |          |
| comp_part10                | OMIT                                                                            |          |
| comp_part11                | OMIT                                                                            |          |
| comp_part12                | OMIT                                                                            |          |
| <b>Detailed Comments:</b>  |                                                                                 |          |

| Structured Type Constraint |                                                                                   |          |
|----------------------------|-----------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FwdChAdvSS_16                                                                     |          |
| <b>Structured Type:</b>    | Component_T                                                                       |          |
| <b>Derivation Path:</b>    |                                                                                   |          |
| <b>Comments:</b>           | AoC- Charging                                                                     |          |
| Element Name               | Element Value                                                                     | Comments |
| comp_part1                 | 'A1260201'O                                                                       |          |
| invokeld                   | '00'O                                                                             |          |
| comp_part2                 | '02017D3080800172A1178102008282020<br>190830164840100850100860100870100<br>0000'O |          |
| comp_part3                 | OMIT                                                                              |          |
| comp_part4                 | OMIT                                                                              |          |
| comp_part5                 | OMIT                                                                              |          |
| comp_part6                 | OMIT                                                                              |          |
| comp_part7                 | OMIT                                                                              |          |
| comp_part8                 | OMIT                                                                              |          |
| comp_part9                 | OMIT                                                                              |          |
| comp_part10                | OMIT                                                                              |          |
| comp_part11                | OMIT                                                                              |          |
| comp_part12                | OMIT                                                                              |          |
| <b>Detailed Comments:</b>  |                                                                                   |          |

| Structured Type Constraint |                                                                                   |          |
|----------------------------|-----------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FwdChAdvSS_17                                                                     |          |
| <b>Structured Type:</b>    | Component_T                                                                       |          |
| <b>Derivation Path:</b>    |                                                                                   |          |
| <b>Comments:</b>           | AoC- Charging                                                                     |          |
| Element Name               | Element Value                                                                     | Comments |
| comp_part1                 | 'A1260201'O                                                                       |          |
| invokeld                   | '00'O                                                                             |          |
| comp_part2                 | '02017D3080800172A117810200BE8202<br>019083016484010085010086010087010<br>00000'O |          |
| comp_part3                 | OMIT                                                                              |          |
| comp_part4                 | OMIT                                                                              |          |
| comp_part5                 | OMIT                                                                              |          |
| comp_part6                 | OMIT                                                                              |          |
| comp_part7                 | OMIT                                                                              |          |
| comp_part8                 | OMIT                                                                              |          |
| comp_part9                 | OMIT                                                                              |          |
| comp_part10                | OMIT                                                                              |          |
| comp_part11                | OMIT                                                                              |          |
| comp_part12                | OMIT                                                                              |          |
| <b>Detailed Comments:</b>  |                                                                                   |          |

| Structured Type Constraint |                                                                                   |          |
|----------------------------|-----------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FwdChAdvSS_18                                                                     |          |
| <b>Structured Type:</b>    | Component_T                                                                       |          |
| <b>Derivation Path:</b>    |                                                                                   |          |
| <b>Comments:</b>           | AoC- Charging                                                                     |          |
| Element Name               | Element Value                                                                     | Comments |
| comp_part1                 | 'A1260201'O                                                                       |          |
| invokeld                   | '00'O                                                                             |          |
| comp_part2                 | '02017D3080800172A1178102012282020<br>190830164840100850100860100870100<br>0000'O |          |
| comp_part3                 | OMIT                                                                              |          |
| comp_part4                 | OMIT                                                                              |          |
| comp_part5                 | OMIT                                                                              |          |
| comp_part6                 | OMIT                                                                              |          |
| comp_part7                 | OMIT                                                                              |          |
| comp_part8                 | OMIT                                                                              |          |
| comp_part9                 | OMIT                                                                              |          |
| comp_part10                | OMIT                                                                              |          |
| comp_part11                | OMIT                                                                              |          |
| comp_part12                | OMIT                                                                              |          |
| <b>Detailed Comments:</b>  |                                                                                   |          |



| Structured Type Constraint |                                                                                 |          |
|----------------------------|---------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FwdChAdvSS_19                                                                   |          |
| <b>Structured Type:</b>    | Component_T                                                                     |          |
| <b>Derivation Path:</b>    |                                                                                 |          |
| <b>Comments:</b>           | AoC- Charging                                                                   |          |
| Element Name               | Element Value                                                                   | Comments |
| comp_part1                 | 'A1800201'O                                                                     |          |
| invokeld                   | '00'O                                                                           |          |
| comp_part2                 | '02017D3021800172A1168101648202022<br>683016484016485010086010087016400<br>00'O |          |
| comp_part3                 | OMIT                                                                            |          |
| comp_part4                 | OMIT                                                                            |          |
| comp_part5                 | OMIT                                                                            |          |
| comp_part6                 | OMIT                                                                            |          |
| comp_part7                 | OMIT                                                                            |          |
| comp_part8                 | OMIT                                                                            |          |
| comp_part9                 | OMIT                                                                            |          |
| comp_part10                | OMIT                                                                            |          |
| comp_part11                | OMIT                                                                            |          |
| comp_part12                | OMIT                                                                            |          |
| <b>Detailed Comments:</b>  |                                                                                 |          |

| Structured Type Constraint |                                                                                 |          |
|----------------------------|---------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FwdChAdvSS_20                                                                   |          |
| <b>Structured Type:</b>    | Component_T                                                                     |          |
| <b>Derivation Path:</b>    |                                                                                 |          |
| <b>Comments:</b>           | AoC- Charging                                                                   |          |
| Element Name               | Element Value                                                                   | Comments |
| comp_part1                 | 'A1800201'O                                                                     |          |
| invokeld                   | '00'O                                                                           |          |
| comp_part2                 | '02017D301B800172A11C81010A820201<br>2C8301648401008501008601008701000<br>000'O |          |
| comp_part3                 | OMIT                                                                            |          |
| comp_part4                 | OMIT                                                                            |          |
| comp_part5                 | OMIT                                                                            |          |
| comp_part6                 | OMIT                                                                            |          |
| comp_part7                 | OMIT                                                                            |          |
| comp_part8                 | OMIT                                                                            |          |
| comp_part9                 | OMIT                                                                            |          |
| comp_part10                | OMIT                                                                            |          |
| comp_part11                | OMIT                                                                            |          |
| comp_part12                | OMIT                                                                            |          |
| <b>Detailed Comments:</b>  |                                                                                 |          |

| Structured Type Constraint |                                                                               |          |
|----------------------------|-------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FwdChAdvSS_21                                                                 |          |
| <b>Structured Type:</b>    | Component_T                                                                   |          |
| <b>Derivation Path:</b>    |                                                                               |          |
| <b>Comments:</b>           | AoC- Charging, charging value is 0.                                           |          |
| Element Name               | Element Value                                                                 | Comments |
| comp_part1                 | 'A1800201'O                                                                   |          |
| invokeld                   | '00'O                                                                         |          |
| comp_part2                 | '02017D301A800172A115810100820100<br>830100840100850100860100870100000<br>0'O |          |
| comp_part3                 | OMIT                                                                          |          |
| comp_part4                 | OMIT                                                                          |          |
| comp_part5                 | OMIT                                                                          |          |
| comp_part6                 | OMIT                                                                          |          |
| comp_part7                 | OMIT                                                                          |          |
| comp_part8                 | OMIT                                                                          |          |
| comp_part9                 | OMIT                                                                          |          |
| comp_part10                | OMIT                                                                          |          |
| comp_part11                | OMIT                                                                          |          |
| comp_part12                | OMIT                                                                          |          |
| <b>Detailed Comments:</b>  |                                                                               |          |

| Structured Type Constraint |                                                                               |          |
|----------------------------|-------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | FwdChAdvSS_22                                                                 |          |
| <b>Structured Type:</b>    | Component_T                                                                   |          |
| <b>Derivation Path:</b>    |                                                                               |          |
| <b>Comments:</b>           | AoC- Charging                                                                 |          |
| Element Name               | Element Value                                                                 | Comments |
| comp_part1                 | 'A1800201'O                                                                   |          |
| invokeld                   | '00'O                                                                         |          |
| comp_part2                 | '02017D301A800172A115810100820100<br>830100840100850100860100870100000<br>0'O |          |
| comp_part3                 | OMIT                                                                          |          |
| comp_part4                 | OMIT                                                                          |          |
| comp_part5                 | OMIT                                                                          |          |
| comp_part6                 | OMIT                                                                          |          |
| comp_part7                 | OMIT                                                                          |          |
| comp_part8                 | OMIT                                                                          |          |
| comp_part9                 | OMIT                                                                          |          |
| comp_part10                | OMIT                                                                          |          |
| comp_part11                | OMIT                                                                          |          |
| comp_part12                | OMIT                                                                          |          |
| <b>Detailed Comments:</b>  |                                                                               |          |

| <b>Structured Type Constraint</b>                           |                 |          |
|-------------------------------------------------------------|-----------------|----------|
| <b>Constraint Name:</b> GetPasswdSS_01(linkid: OCTETSTRING) |                 |          |
| <b>Structured Type:</b> Component_T                         |                 |          |
| <b>Derivation Path:</b>                                     |                 |          |
| <b>Comments:</b> getpassword                                |                 |          |
| Element Name                                                | Element Value   | Comments |
| comp_part1                                                  | 'A10C0201'O     |          |
| invokeld                                                    | '00'O           |          |
| comp_part2                                                  | '8001'O         |          |
| comp_part3                                                  | linkid          |          |
| comp_part4                                                  | '0201120A0100'O |          |
| comp_part5                                                  | OMIT            |          |
| comp_part6                                                  | OMIT            |          |
| comp_part7                                                  | OMIT            |          |
| comp_part8                                                  | OMIT            |          |
| comp_part9                                                  | OMIT            |          |
| comp_part10                                                 | OMIT            |          |
| comp_part11                                                 | OMIT            |          |
| comp_part12                                                 | OMIT            |          |
| <b>Detailed Comments:</b>                                   |                 |          |

| <b>Structured Type Constraint</b>                           |                 |          |
|-------------------------------------------------------------|-----------------|----------|
| <b>Constraint Name:</b> GetPasswdSS_02(linkid: OCTETSTRING) |                 |          |
| <b>Structured Type:</b> Component_T                         |                 |          |
| <b>Derivation Path:</b>                                     |                 |          |
| <b>Comments:</b> getpassword (enter new password)           |                 |          |
| Element Name                                                | Element Value   | Comments |
| comp_part1                                                  | 'A10C0201'O     |          |
| invokeld                                                    | '00'O           |          |
| comp_part2                                                  | '8001'O         |          |
| comp_part3                                                  | linkid          |          |
| comp_part4                                                  | '0201120A0101'O |          |
| comp_part5                                                  | OMIT            |          |
| comp_part6                                                  | OMIT            |          |
| comp_part7                                                  | OMIT            |          |
| comp_part8                                                  | OMIT            |          |
| comp_part9                                                  | OMIT            |          |
| comp_part10                                                 | OMIT            |          |
| comp_part11                                                 | OMIT            |          |
| comp_part12                                                 | OMIT            |          |
| <b>Detailed Comments:</b>                                   |                 |          |

| Structured Type Constraint |                                        |          |
|----------------------------|----------------------------------------|----------|
| <b>Constraint Name:</b>    | GetPasswdSS_03(linkid: OCTETSTRING)    |          |
| <b>Structured Type:</b>    | Component_T                            |          |
| <b>Derivation Path:</b>    |                                        |          |
| <b>Comments:</b>           | getpassword (enter new password again) |          |
| Element Name               | Element Value                          | Comments |
| comp_part1                 | 'A10C0201'O                            |          |
| invokeld                   | '00'O                                  |          |
| comp_part2                 | '8001'O                                |          |
| comp_part3                 | linkid                                 |          |
| comp_part4                 | '0201120A0102'O                        |          |
| comp_part5                 | OMIT                                   |          |
| comp_part6                 | OMIT                                   |          |
| comp_part7                 | OMIT                                   |          |
| comp_part8                 | OMIT                                   |          |
| comp_part9                 | OMIT                                   |          |
| comp_part10                | OMIT                                   |          |
| comp_part11                | OMIT                                   |          |
| comp_part12                | OMIT                                   |          |
| <b>Detailed Comments:</b>  |                                        |          |

| Structured Type Constraint |                                       |          |
|----------------------------|---------------------------------------|----------|
| <b>Constraint Name:</b>    | InterrogateSSRslt_01(id: OCTETSTRING) |          |
| <b>Structured Type:</b>    | Component_T                           |          |
| <b>Derivation Path:</b>    |                                       |          |
| <b>Comments:</b>           | CFB all basic services                |          |
| Element Name               | Element Value                         | Comments |
| comp_part1                 | 'A20D0201'O                           |          |
| invokeld                   | id                                    |          |
| comp_part2                 | '308002010E8001040000'O               |          |
| comp_part3                 | OMIT                                  |          |
| comp_part4                 | OMIT                                  |          |
| comp_part5                 | OMIT                                  |          |
| comp_part6                 | OMIT                                  |          |
| comp_part7                 | OMIT                                  |          |
| comp_part8                 | OMIT                                  |          |
| comp_part9                 | OMIT                                  |          |
| comp_part10                | OMIT                                  |          |
| comp_part11                | OMIT                                  |          |
| comp_part12                | OMIT                                  |          |
| <b>Detailed Comments:</b>  |                                       |          |

| Structured Type Constraint |                                                   |          |
|----------------------------|---------------------------------------------------|----------|
| <b>Constraint Name:</b>    | InterrogateSSRslt_02(id: OCTETSTRING)             |          |
| <b>Structured Type:</b>    | Component_T                                       |          |
| <b>Derivation Path:</b>    |                                                   |          |
| <b>Comments:</b>           | CFNRy Speech                                      |          |
| Element Name               | Element Value                                     | Comments |
| comp_part1                 | 'A2180201'O                                       |          |
| invokeld                   | id                                                |          |
| comp_part2                 | '301302010EA30E300C83011184010785<br>0491342143'O |          |
| comp_part3                 | OMIT                                              |          |
| comp_part4                 | OMIT                                              |          |
| comp_part5                 | OMIT                                              |          |
| comp_part6                 | OMIT                                              |          |
| comp_part7                 | OMIT                                              |          |
| comp_part8                 | OMIT                                              |          |
| comp_part9                 | OMIT                                              |          |
| comp_part10                | OMIT                                              |          |
| comp_part11                | OMIT                                              |          |
| comp_part12                | OMIT                                              |          |
| <b>Detailed Comments:</b>  |                                                   |          |

| Structured Type Constraint |                                       |          |
|----------------------------|---------------------------------------|----------|
| <b>Constraint Name:</b>    | InterrogateSSRslt_03(id: OCTETSTRING) |          |
| <b>Structured Type:</b>    | Component_T                           |          |
| <b>Derivation Path:</b>    |                                       |          |
| <b>Comments:</b>           | BAIC                                  |          |
| Element Name               | Element Value                         | Comments |
| comp_part1                 | 'A20D0201'O                           |          |
| invokeld                   | id                                    |          |
| comp_part2                 | '300802010EA203830111'O               |          |
| comp_part3                 | OMIT                                  |          |
| comp_part4                 | OMIT                                  |          |
| comp_part5                 | OMIT                                  |          |
| comp_part6                 | OMIT                                  |          |
| comp_part7                 | OMIT                                  |          |
| comp_part8                 | OMIT                                  |          |
| comp_part9                 | OMIT                                  |          |
| comp_part10                | OMIT                                  |          |
| comp_part11                | OMIT                                  |          |
| comp_part12                | OMIT                                  |          |
| <b>Detailed Comments:</b>  |                                       |          |

| Structured Type Constraint |                                       |          |
|----------------------------|---------------------------------------|----------|
| <b>Constraint Name:</b>    | InterrogateSSRslt_04(id: OCTETSTRING) |          |
| <b>Structured Type:</b>    | Component_T                           |          |
| <b>Derivation Path:</b>    |                                       |          |
| <b>Comments:</b>           | BAIC                                  |          |
| Element Name               | Element Value                         | Comments |
| comp_part1                 | 'A20B0201'O                           |          |
| invokeld                   | id                                    |          |
| comp_part2                 | '300602010E800107'O                   |          |
| comp_part3                 | OMIT                                  |          |
| comp_part4                 | OMIT                                  |          |
| comp_part5                 | OMIT                                  |          |
| comp_part6                 | OMIT                                  |          |
| comp_part7                 | OMIT                                  |          |
| comp_part8                 | OMIT                                  |          |
| comp_part9                 | OMIT                                  |          |
| comp_part10                | OMIT                                  |          |
| comp_part11                | OMIT                                  |          |
| comp_part12                | OMIT                                  |          |
| <b>Detailed Comments:</b>  |                                       |          |

| Structured Type Constraint |                                      |          |
|----------------------------|--------------------------------------|----------|
| <b>Constraint Name:</b>    | InterrogateSSErr_01(id: OCTETSTRING) |          |
| <b>Structured Type:</b>    | Component_T                          |          |
| <b>Derivation Path:</b>    |                                      |          |
| <b>Comments:</b>           | CFNRc                                |          |
| Element Name               | Element Value                        | Comments |
| comp_part1                 | 'A3060201'O                          |          |
| invokeld                   | id                                   |          |
| comp_part2                 | '020112'O                            |          |
| comp_part3                 | OMIT                                 |          |
| comp_part4                 | OMIT                                 |          |
| comp_part5                 | OMIT                                 |          |
| comp_part6                 | OMIT                                 |          |
| comp_part7                 | OMIT                                 |          |
| comp_part8                 | OMIT                                 |          |
| comp_part9                 | OMIT                                 |          |
| comp_part10                | OMIT                                 |          |
| comp_part11                | OMIT                                 |          |
| comp_part12                | OMIT                                 |          |
| <b>Detailed Comments:</b>  |                                      |          |

| Structured Type Constraint |                                      |          |
|----------------------------|--------------------------------------|----------|
| <b>Constraint Name:</b>    | InterrogateSSErr_02(id: OCTETSTRING) |          |
| <b>Structured Type:</b>    | Component_T                          |          |
| <b>Derivation Path:</b>    |                                      |          |
| <b>Comments:</b>           |                                      |          |
| Element Name               | Element Value                        | Comments |
| comp_part1                 | 'A3800201'O                          |          |
| invokeld                   | id                                   |          |
| comp_part2                 | '0201120000'O                        |          |
| comp_part3                 | OMIT                                 |          |
| comp_part4                 | OMIT                                 |          |
| comp_part5                 | OMIT                                 |          |
| comp_part6                 | OMIT                                 |          |
| comp_part7                 | OMIT                                 |          |
| comp_part8                 | OMIT                                 |          |
| comp_part9                 | OMIT                                 |          |
| comp_part10                | OMIT                                 |          |
| comp_part11                | OMIT                                 |          |
| comp_part12                | OMIT                                 |          |
| <b>Detailed Comments:</b>  |                                      |          |

| Structured Type Constraint |                                      |          |
|----------------------------|--------------------------------------|----------|
| <b>Constraint Name:</b>    | InterrogateSSRej_01(id: OCTETSTRING) |          |
| <b>Structured Type:</b>    | Component_T                          |          |
| <b>Derivation Path:</b>    |                                      |          |
| <b>Comments:</b>           |                                      |          |
| Element Name               | Element Value                        | Comments |
| comp_part1                 | 'A4800201'O                          |          |
| invokeld                   | id                                   |          |
| comp_part2                 | '8101030000'O                        |          |
| comp_part3                 | OMIT                                 |          |
| comp_part4                 | OMIT                                 |          |
| comp_part5                 | OMIT                                 |          |
| comp_part6                 | OMIT                                 |          |
| comp_part7                 | OMIT                                 |          |
| comp_part8                 | OMIT                                 |          |
| comp_part9                 | OMIT                                 |          |
| comp_part10                | OMIT                                 |          |
| comp_part11                | OMIT                                 |          |
| comp_part12                | OMIT                                 |          |
| <b>Detailed Comments:</b>  |                                      |          |

| Structured Type Constraint |                                      |          |
|----------------------------|--------------------------------------|----------|
| <b>Constraint Name:</b>    | InterrogateSSRej_02(id: OCTETSTRING) |          |
| <b>Structured Type:</b>    | Component_T                          |          |
| <b>Derivation Path:</b>    |                                      |          |
| <b>Comments:</b>           |                                      |          |
| Element Name               | Element Value                        | Comments |
| comp_part1                 | 'A4060201'O                          |          |
| invokeld                   | id                                   |          |
| comp_part2                 | '810103'O                            |          |
| comp_part3                 | OMIT                                 |          |
| comp_part4                 | OMIT                                 |          |
| comp_part5                 | OMIT                                 |          |
| comp_part6                 | OMIT                                 |          |
| comp_part7                 | OMIT                                 |          |
| comp_part8                 | OMIT                                 |          |
| comp_part9                 | OMIT                                 |          |
| comp_part10                | OMIT                                 |          |
| comp_part11                | OMIT                                 |          |
| comp_part12                | OMIT                                 |          |
| <b>Detailed Comments:</b>  |                                      |          |

| Structured Type Constraint |                               |          |
|----------------------------|-------------------------------|----------|
| <b>Constraint Name:</b>    | NotificationSS_01             |          |
| <b>Structured Type:</b>    | Component_T                   |          |
| <b>Derivation Path:</b>    |                               |          |
| <b>Comments:</b>           | incoming call forwarded.      |          |
| Element Name               | Element Value                 | Comments |
| comp_part1                 | 'A1100201'O                   |          |
| invokeld                   | '01'O                         |          |
| comp_part2                 | '02011030808101298501020000'O |          |
| comp_part3                 | OMIT                          |          |
| comp_part4                 | OMIT                          |          |
| comp_part5                 | OMIT                          |          |
| comp_part6                 | OMIT                          |          |
| comp_part7                 | OMIT                          |          |
| comp_part8                 | OMIT                          |          |
| comp_part9                 | OMIT                          |          |
| comp_part10                | OMIT                          |          |
| comp_part11                | OMIT                          |          |
| comp_part12                | OMIT                          |          |
| <b>Detailed Comments:</b>  |                               |          |



| Structured Type Constraint |                                        |          |
|----------------------------|----------------------------------------|----------|
| <b>Constraint Name:</b>    | NotificationSS_02                      |          |
| <b>Structured Type:</b>    | Component_T                            |          |
| <b>Derivation Path:</b>    |                                        |          |
| <b>Comments:</b>           | CFU provisioned, registered and active |          |
| Element Name               | Element Value                          | Comments |
| comp_part1                 | 'A1800201'O                            |          |
| invokeld                   | '00'O                                  |          |
| comp_part2                 | '02011030068101218401070000'O          |          |
| comp_part3                 | OMIT                                   |          |
| comp_part4                 | OMIT                                   |          |
| comp_part5                 | OMIT                                   |          |
| comp_part6                 | OMIT                                   |          |
| comp_part7                 | OMIT                                   |          |
| comp_part8                 | OMIT                                   |          |
| comp_part9                 | OMIT                                   |          |
| comp_part10                | OMIT                                   |          |
| comp_part11                | OMIT                                   |          |
| comp_part12                | OMIT                                   |          |
| <b>Detailed Comments:</b>  |                                        |          |

| Structured Type Constraint |                                        |          |
|----------------------------|----------------------------------------|----------|
| <b>Constraint Name:</b>    | NotificationSS_03                      |          |
| <b>Structured Type:</b>    | Component_T                            |          |
| <b>Derivation Path:</b>    |                                        |          |
| <b>Comments:</b>           | CFC provisioned, registered and active |          |
| Element Name               | Element Value                          | Comments |
| comp_part1                 | 'A1100201'O                            |          |
| invokeld                   | '01'O                                  |          |
| comp_part2                 | '02011030808101288401070000'O          |          |
| comp_part3                 | OMIT                                   |          |
| comp_part4                 | OMIT                                   |          |
| comp_part5                 | OMIT                                   |          |
| comp_part6                 | OMIT                                   |          |
| comp_part7                 | OMIT                                   |          |
| comp_part8                 | OMIT                                   |          |
| comp_part9                 | OMIT                                   |          |
| comp_part10                | OMIT                                   |          |
| comp_part11                | OMIT                                   |          |
| comp_part12                | OMIT                                   |          |
| <b>Detailed Comments:</b>  |                                        |          |

| Structured Type Constraint |                               |          |
|----------------------------|-------------------------------|----------|
| <b>Constraint Name:</b>    | NotificationSS_04             |          |
| <b>Structured Type:</b>    | Component_T                   |          |
| <b>Derivation Path:</b>    |                               |          |
| <b>Comments:</b>           | CFNRc forwarded call          |          |
| Element Name               | Element Value                 | Comments |
| comp_part1                 | 'A1800201'O                   |          |
| invokeld                   | '00'O                         |          |
| comp_part2                 | '020110300681012B8501010000'O |          |
| comp_part3                 | OMIT                          |          |
| comp_part4                 | OMIT                          |          |
| comp_part5                 | OMIT                          |          |
| comp_part6                 | OMIT                          |          |
| comp_part7                 | OMIT                          |          |
| comp_part8                 | OMIT                          |          |
| comp_part9                 | OMIT                          |          |
| comp_part10                | OMIT                          |          |
| comp_part11                | OMIT                          |          |
| comp_part12                | OMIT                          |          |
| <b>Detailed Comments:</b>  |                               |          |

| Structured Type Constraint |                           |          |
|----------------------------|---------------------------|----------|
| <b>Constraint Name:</b>    | NotificationSS_05         |          |
| <b>Structured Type:</b>    | Component_T               |          |
| <b>Derivation Path:</b>    |                           |          |
| <b>Comments:</b>           | BI                        |          |
| Element Name               | Element Value             | Comments |
| comp_part1                 | 'A10E0201'O               |          |
| invokeld                   | '00'O                     |          |
| comp_part2                 | '0201103006810199840107'O |          |
| comp_part3                 | OMIT                      |          |
| comp_part4                 | OMIT                      |          |
| comp_part5                 | OMIT                      |          |
| comp_part6                 | OMIT                      |          |
| comp_part7                 | OMIT                      |          |
| comp_part8                 | OMIT                      |          |
| comp_part9                 | OMIT                      |          |
| comp_part10                | OMIT                      |          |
| comp_part11                | OMIT                      |          |
| comp_part12                | OMIT                      |          |
| <b>Detailed Comments:</b>  |                           |          |

| <b>Structured Type Constraint</b>                                                    |                                   |          |
|--------------------------------------------------------------------------------------|-----------------------------------|----------|
| <b>Constraint Name:</b> NotificationSS_06(Invkid:OCTETSTRING; ussdstring: IA5String) |                                   |          |
| <b>Structured Type:</b> Component_T                                                  |                                   |          |
| <b>Derivation Path:</b>                                                              |                                   |          |
| <b>Comments:</b> UnstructuredSS-Notify                                               |                                   |          |
| Element Name                                                                         | Element Value                     | Comments |
| comp_part1                                                                           | 'A1140201'O                       |          |
| invokeld                                                                             | Invkid                            |          |
| comp_part2                                                                           | '02013D0F'O                       |          |
| comp_part3                                                                           | OC_CodingOfUssdString(ussdstring) |          |
| comp_part4                                                                           | OMIT                              |          |
| comp_part5                                                                           | OMIT                              |          |
| comp_part6                                                                           | OMIT                              |          |
| comp_part7                                                                           | OMIT                              |          |
| comp_part8                                                                           | OMIT                              |          |
| comp_part9                                                                           | OMIT                              |          |
| comp_part10                                                                          | OMIT                              |          |
| comp_part11                                                                          | OMIT                              |          |
| comp_part12                                                                          | OMIT                              |          |
| <b>Detailed Comments:</b>                                                            |                                   |          |

| <b>Structured Type Constraint</b>                              |               |          |
|----------------------------------------------------------------|---------------|----------|
| <b>Constraint Name:</b> NotificationSS_08(Invkid: OCTETSTRING) |               |          |
| <b>Structured Type:</b> Component_T                            |               |          |
| <b>Derivation Path:</b>                                        |               |          |
| <b>Comments:</b> UnstructuredSS-Notify                         |               |          |
| Element Name                                                   | Element Value | Comments |
| comp_part1                                                     | 'A2030201'O   |          |
| invokeld                                                       | Invkid        |          |
| comp_part2                                                     | OMIT          |          |
| comp_part3                                                     | OMIT          |          |
| comp_part4                                                     | OMIT          |          |
| comp_part5                                                     | OMIT          |          |
| comp_part6                                                     | OMIT          |          |
| comp_part7                                                     | OMIT          |          |
| comp_part8                                                     | OMIT          |          |
| comp_part9                                                     | OMIT          |          |
| comp_part10                                                    | OMIT          |          |
| comp_part11                                                    | OMIT          |          |
| comp_part12                                                    | OMIT          |          |
| <b>Detailed Comments:</b>                                      |               |          |

| Structured Type Constraint |                                     |          |
|----------------------------|-------------------------------------|----------|
| <b>Constraint Name:</b>    | BuildMptySSRslt_01(id: OCTETSTRING) |          |
| <b>Structured Type:</b>    | Component_T                         |          |
| <b>Derivation Path:</b>    |                                     |          |
| <b>Comments:</b>           | ReturnResult for buildMPTY          |          |
| Element Name               | Element Value                       | Comments |
| comp_part1                 | 'A2800201'O                         |          |
| invokeld                   | id                                  |          |
| comp_part2                 | '0000'O                             |          |
| comp_part3                 | OMIT                                |          |
| comp_part4                 | OMIT                                |          |
| comp_part5                 | OMIT                                |          |
| comp_part6                 | OMIT                                |          |
| comp_part7                 | OMIT                                |          |
| comp_part8                 | OMIT                                |          |
| comp_part9                 | OMIT                                |          |
| comp_part10                | OMIT                                |          |
| comp_part11                | OMIT                                |          |
| comp_part12                | OMIT                                |          |
| <b>Detailed Comments:</b>  |                                     |          |

| Structured Type Constraint |                |          |
|----------------------------|----------------|----------|
| <b>Constraint Name:</b>    | RelTmdDif_omit |          |
| <b>Structured Type:</b>    | TDIF           |          |
| <b>Derivation Path:</b>    |                |          |
| <b>Comments:</b>           |                |          |
| Element Name               | Element Value  | Comments |
| iei                        | OMIT           |          |
| iel                        | OMIT           |          |
| value                      | OMIT           |          |
| <b>Detailed Comments:</b>  |                |          |

| Structured Type Constraint |                                            |          |
|----------------------------|--------------------------------------------|----------|
| <b>Constraint Name:</b>    | RelTmdDif_01                               |          |
| <b>Structured Type:</b>    | TDIF                                       |          |
| <b>Derivation Path:</b>    |                                            |          |
| <b>Comments:</b>           |                                            |          |
| Element Name               | Element Value                              | Comments |
| iei                        | '01111011'B                                |          |
| iel                        | '01'O                                      |          |
| value                      | OC_IntToOct(((2*TSPX_k2 + 10) MOD 256), 1) |          |
| <b>Detailed Comments:</b>  |                                            |          |

| Structured Type Constraint |                                     |          |
|----------------------------|-------------------------------------|----------|
| <b>Constraint Name:</b>    | Rqr1(Rr: BITSTRING; Fn: FN)         |          |
| <b>Structured Type:</b>    | RQR                                 |          |
| <b>Derivation Path:</b>    |                                     |          |
| <b>Comments:</b>           | not address the MS under test       |          |
| Element Name               | Element Value                       | Comments |
| ra                         | INT_TO_BIT((BIT_TO_INT(Rr) + 1), 8) |          |
| fn                         | OC_FnInc(Fn, 2)                     |          |
| <b>Detailed Comments:</b>  |                                     |          |

| Structured Type Constraint |                              |          |
|----------------------------|------------------------------|----------|
| <b>Constraint Name:</b>    | Rqr2(Rr: BITSTRING; Fn: FN)  |          |
| <b>Structured Type:</b>    | RQR                          |          |
| <b>Derivation Path:</b>    |                              |          |
| <b>Comments:</b>           | To address the MS under test |          |
| Element Name               | Element Value                | Comments |
| ra                         | Rr                           |          |
| fn                         | Fn                           |          |
| <b>Detailed Comments:</b>  |                              |          |

| Structured Type Constraint |                                     |          |
|----------------------------|-------------------------------------|----------|
| <b>Constraint Name:</b>    | Rqr3                                |          |
| <b>Structured Type:</b>    | RQR                                 |          |
| <b>Derivation Path:</b>    |                                     |          |
| <b>Comments:</b>           | not pertaining to the MS under test |          |
| Element Name               | Element Value                       | Comments |
| ra                         | '00000000'B                         |          |
| fn                         | Fn_01                               |          |
| <b>Detailed Comments:</b>  |                                     |          |

| Structured Type Constraint |                                       |          |
|----------------------------|---------------------------------------|----------|
| <b>Constraint Name:</b>    | Signal_01                             |          |
| <b>Structured Type:</b>    | SIGNAL                                |          |
| <b>Derivation Path:</b>    |                                       |          |
| <b>Comments:</b>           | signal value is arbitrarily selected. |          |
| Element Name               | Element Value                         | Comments |
| iei                        | '00110100'B                           |          |
| sigv                       | '00000000'B                           |          |
| <b>Detailed Comments:</b>  |                                       |          |

| Structured Type Constraint |                                                |          |
|----------------------------|------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Signal_02                                      |          |
| <b>Structured Type:</b>    | SIGNAL                                         |          |
| <b>Derivation Path:</b>    |                                                |          |
| <b>Comments:</b>           | Signal IE with value #7 "call waiting tone on" |          |
| Element Name               | Element Value                                  | Comments |
| iei                        | '00110100'B                                    |          |
| sigv                       | '00000111'B                                    |          |
| <b>Detailed Comments:</b>  |                                                |          |

| Structured Type Constraint |                       |          |
|----------------------------|-----------------------|----------|
| <b>Constraint Name:</b>    | StartingTm_01(fn: FN) |          |
| <b>Structured Type:</b>    | STRT                  |          |
| <b>Derivation Path:</b>    |                       |          |
| <b>Comments:</b>           |                       |          |
| Element Name               | Element Value         | Comments |
| iei                        | '01111101'B           |          |
| fn                         | fn                    |          |
| <b>Detailed Comments:</b>  |                       |          |

| Structured Type Constraint |                 |          |
|----------------------------|-----------------|----------|
| <b>Constraint Name:</b>    | StartingTm_omit |          |
| <b>Structured Type:</b>    | STRT            |          |
| <b>Derivation Path:</b>    |                 |          |
| <b>Comments:</b>           |                 |          |
| Element Name               | Element Value   | Comments |
| iei                        | OMIT            |          |
| fn                         | OMIT            |          |
| <b>Detailed Comments:</b>  |                 |          |

| Structured Type Constraint |                                 |          |
|----------------------------|---------------------------------|----------|
| <b>Constraint Name:</b>    | SubAdd_01                       |          |
| <b>Structured Type:</b>    | SUBAD                           |          |
| <b>Derivation Path:</b>    |                                 |          |
| <b>Comments:</b>           | containing arbitrary spare bits |          |
| Element Name               | Element Value                   | Comments |
| extb                       | '1'B                            |          |
| tos                        | '000'B                          |          |
| oei                        | '0'B                            |          |
| sp3b                       | '111'B                          |          |
| si                         | '5001'O                         |          |
| <b>Detailed Comments:</b>  |                                 |          |

| Structured Type Constraint |                          |          |
|----------------------------|--------------------------|----------|
| <b>Constraint Name:</b>    | Synchi(rot:B_1; si: B_2) |          |
| <b>Structured Type:</b>    | SYNCHI                   |          |
| <b>Derivation Path:</b>    |                          |          |
| <b>Comments:</b>           |                          |          |
| Element Name               | Element Value            | Comments |
| iei                        | '1100'B                  |          |
| nci                        | '0'B                     |          |
| rot                        | rot                      |          |
| si                         | si                       |          |
| <b>Detailed Comments:</b>  |                          |          |

| Structured Type Constraint |                                        |          |
|----------------------------|----------------------------------------|----------|
| <b>Constraint Name:</b>    | Synchi_01                              |          |
| <b>Structured Type:</b>    | SYNCHI                                 |          |
| <b>Derivation Path:</b>    |                                        |          |
| <b>Comments:</b>           | coded as a comprehension required IEI. |          |
| Element Name               | Element Value                          | Comments |
| iei                        | '0000'B                                |          |
| nci                        | '0'B                                   |          |
| rot                        | '0'B                                   |          |
| si                         | '00'B                                  |          |
| <b>Detailed Comments:</b>  |                                        |          |

| Structured Type Constraint |                                     |          |
|----------------------------|-------------------------------------|----------|
| <b>Constraint Name:</b>    | TimingAdv(bits: INTEGER)            |          |
| <b>Structured Type:</b>    | TA                                  |          |
| <b>Derivation Path:</b>    |                                     |          |
| <b>Comments:</b>           | Time Advance value is parametrized. |          |
| Element Name               | Element Value                       | Comments |
| iei                        | OMIT                                |          |
| sprb                       | '00'B                               |          |
| value                      | INT_TO_BIT(bits, 6)                 |          |
| <b>Detailed Comments:</b>  |                                     |          |

| Structured Type Constraint |                              |          |
|----------------------------|------------------------------|----------|
| <b>Constraint Name:</b>    | TimingAdv_iei(bits: INTEGER) |          |
| <b>Structured Type:</b>    | TA                           |          |
| <b>Derivation Path:</b>    |                              |          |
| <b>Comments:</b>           | 0 time advance.              |          |
| Element Name               | Element Value                | Comments |
| iei                        | '01111101'B                  |          |
| sprb                       | '00'B                        |          |
| value                      | INT_TO_BIT(bits, 6)          |          |
| <b>Detailed Comments:</b>  |                              |          |

| Structured Type Constraint |                                 |          |
|----------------------------|---------------------------------|----------|
| <b>Constraint Name:</b>    | TimingAdv_inv                   |          |
| <b>Structured Type:</b>    | TA                              |          |
| <b>Derivation Path:</b>    |                                 |          |
| <b>Comments:</b>           | containing arbitrary spare bits |          |
| Element Name               | Element Value                   | Comments |
| iei                        | OMIT                            |          |
| sprb                       | '11'B                           |          |
| value                      | '000000'B                       |          |
| <b>Detailed Comments:</b>  |                                 |          |

| Structured Type Constraint |                                     |          |
|----------------------------|-------------------------------------|----------|
| <b>Constraint Name:</b>    | TimingAdv_omit                      |          |
| <b>Structured Type:</b>    | TA                                  |          |
| <b>Derivation Path:</b>    |                                     |          |
| <b>Comments:</b>           | Time Advance value is parametrized. |          |
| Element Name               | Element Value                       | Comments |
| iei                        | OMIT                                |          |
| sprb                       | OMIT                                |          |
| value                      | OMIT                                |          |
| <b>Detailed Comments:</b>  |                                     |          |

| Structured Type Constraint |                                                                 |          |
|----------------------------|-----------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | TI_01                                                           |          |
| <b>Structured Type:</b>    | TI                                                              |          |
| <b>Derivation Path:</b>    |                                                                 |          |
| <b>Comments:</b>           | used by the MS in the transaction initiated by the test system. |          |
| Element Name               | Element Value                                                   | Comments |
| ti_f                       | '1'B                                                            |          |
| ti_v                       | '000'B                                                          |          |
| <b>Detailed Comments:</b>  |                                                                 |          |

| Structured Type Constraint |                                                                                  |          |
|----------------------------|----------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | TI_02                                                                            |          |
| <b>Structured Type:</b>    | TI                                                                               |          |
| <b>Derivation Path:</b>    |                                                                                  |          |
| <b>Comments:</b>           | used in the messages sent to the MS in the transaction initiated by test system. |          |
| Element Name               | Element Value                                                                    | Comments |
| ti_f                       | '0'B                                                                             |          |
| ti_v                       | '000'B                                                                           |          |
| <b>Detailed Comments:</b>  |                                                                                  |          |

| Structured Type Constraint |                                                                                  |          |
|----------------------------|----------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | TI_03                                                                            |          |
| <b>Structured Type:</b>    | TI                                                                               |          |
| <b>Derivation Path:</b>    |                                                                                  |          |
| <b>Comments:</b>           | used in the messages sent to the MS in the transaction initiated by test system. |          |
| Element Name               | Element Value                                                                    | Comments |
| ti_f                       | '0'B                                                                             |          |
| ti_v                       | '110'B                                                                           |          |
| <b>Detailed Comments:</b>  |                                                                                  |          |

| Structured Type Constraint |                 |          |
|----------------------------|-----------------|----------|
| <b>Constraint Name:</b>    | TI_04           |          |
| <b>Structured Type:</b>    | TI              |          |
| <b>Derivation Path:</b>    |                 |          |
| <b>Comments:</b>           | arbitrary value |          |
| Element Name               | Element Value   | Comments |
| ti_f                       | '0'B            |          |
| ti_v                       | '011'B          |          |
| <b>Detailed Comments:</b>  |                 |          |

| Structured Type Constraint |                                                                 |          |
|----------------------------|-----------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | TI_05                                                           |          |
| <b>Structured Type:</b>    | TI                                                              |          |
| <b>Derivation Path:</b>    |                                                                 |          |
| <b>Comments:</b>           | used by the MS in the transaction initiated by the test system. |          |
| Element Name               | Element Value                                                   | Comments |
| ti_f                       | '1'B                                                            |          |
| ti_v                       | '110'B                                                          |          |
| <b>Detailed Comments:</b>  |                                                                 |          |

| Structured Type Constraint |               |          |
|----------------------------|---------------|----------|
| <b>Constraint Name:</b>    | TI_06         |          |
| <b>Structured Type:</b>    | TI            |          |
| <b>Derivation Path:</b>    |               |          |
| <b>Comments:</b>           |               |          |
| Element Name               | Element Value | Comments |
| ti_f                       | '0'B          |          |
| ti_v                       | '111'B        |          |
| <b>Detailed Comments:</b>  |               |          |



| Structured Type Constraint |                                                                             |          |
|----------------------------|-----------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | TI_07(ti: TI_V)                                                             |          |
| <b>Structured Type:</b>    | TI                                                                          |          |
| <b>Derivation Path:</b>    |                                                                             |          |
| <b>Comments:</b>           | used in the messages sent to the MS in the transaction initiated by the MS. |          |
| Element Name               | Element Value                                                               | Comments |
| ti_f                       | '0'B                                                                        |          |
| ti_v                       | ti                                                                          |          |
| <b>Detailed Comments:</b>  |                                                                             |          |

| Structured Type Constraint |                                                                                           |          |
|----------------------------|-------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | TI_08(ti: TI_V)                                                                           |          |
| <b>Structured Type:</b>    | TI                                                                                        |          |
| <b>Derivation Path:</b>    |                                                                                           |          |
| <b>Comments:</b>           | used in the messages sent to the MS in the transaction initiated by the system simulator. |          |
| Element Name               | Element Value                                                                             | Comments |
| ti_f                       | '1'B                                                                                      |          |
| ti_v                       | ti                                                                                        |          |
| <b>Detailed Comments:</b>  |                                                                                           |          |

| Structured Type Constraint |                                                        |          |
|----------------------------|--------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | TI_09                                                  |          |
| <b>Structured Type:</b>    | TI                                                     |          |
| <b>Derivation Path:</b>    |                                                        |          |
| <b>Comments:</b>           | used by the MS in the transaction initiated by the MS. |          |
| Element Name               | Element Value                                          | Comments |
| ti_f                       | '0'B                                                   |          |
| ti_v                       | ?                                                      |          |
| <b>Detailed Comments:</b>  |                                                        |          |

| Structured Type Constraint |               |          |
|----------------------------|---------------|----------|
| <b>Constraint Name:</b>    | Tmsi_01       |          |
| <b>Structured Type:</b>    | TMSI          |          |
| <b>Derivation Path:</b>    |               |          |
| <b>Comments:</b>           |               |          |
| Element Name               | Element Value | Comments |
| iei                        | OMIT          |          |
| tmsi_val                   | TSPX_TMSI     |          |
| <b>Detailed Comments:</b>  |               |          |

| Structured Type Constraint                                                                 |                              |          |
|--------------------------------------------------------------------------------------------|------------------------------|----------|
| <b>Constraint Name:</b>                                                                    | Tmsi_r01                     |          |
| <b>Structured Type:</b>                                                                    | TMSI                         |          |
| <b>Derivation Path:</b>                                                                    |                              |          |
| <b>Comments:</b>                                                                           |                              |          |
| Element Name                                                                               | Element Value                | Comments |
| iei                                                                                        | OMIT                         |          |
| tmsi_val                                                                                   | 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 |                                                                  |          |
|----------------------------|------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Tmsi_r03                                                         |          |
| <b>Structured Type:</b>    | TMSI                                                             |          |
| <b>Derivation Path:</b>    |                                                                  |          |
| <b>Comments:</b>           |                                                                  |          |
| Element Name               | Element Value                                                    | Comments |
| iei                        | OMIT                                                             |          |
| 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 |                                                                  |          |
|----------------------------|------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Tmsi_r04                                                         |          |
| <b>Structured Type:</b>    | TMSI                                                             |          |
| <b>Derivation Path:</b>    |                                                                  |          |
| <b>Comments:</b>           |                                                                  |          |
| Element Name               | Element Value                                                    | Comments |
| iei                        | OMIT                                                             |          |
| 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 |                                                                  |          |
|----------------------------|------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Tmsi_r05                                                         |          |
| <b>Structured Type:</b>    | TMSI                                                             |          |
| <b>Derivation Path:</b>    |                                                                  |          |
| <b>Comments:</b>           |                                                                  |          |
| Element Name               | Element Value                                                    | Comments |
| iei                        | OMIT                                                             |          |
| 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 |               |          |
|----------------------------|---------------|----------|
| <b>Constraint Name:</b>    | TonNpi_01     |          |
| <b>Structured Type:</b>    | TON_NPI       |          |
| <b>Derivation Path:</b>    |               |          |
| <b>Comments:</b>           |               |          |
| Element Name               | Element Value | Comments |
| extb                       | '0'B          |          |
| ton                        | '000'B        |          |
| npi                        | '0000'B       |          |
| <b>Detailed Comments:</b>  |               |          |

| Structured Type Constraint |               |          |
|----------------------------|---------------|----------|
| <b>Constraint Name:</b>    | TonNpi_02     |          |
| <b>Structured Type:</b>    | TON_NPI       |          |
| <b>Derivation Path:</b>    |               |          |
| <b>Comments:</b>           |               |          |
| Element Name               | Element Value | Comments |
| extb                       | '1'B          |          |
| ton                        | '000'B        |          |
| npi                        | '0000'B       |          |
| <b>Detailed Comments:</b>  |               |          |

| Structured Type Constraint |               |          |
|----------------------------|---------------|----------|
| <b>Constraint Name:</b>    | TonNpi_03     |          |
| <b>Structured Type:</b>    | TON_NPI       |          |
| <b>Derivation Path:</b>    |               |          |
| <b>Comments:</b>           |               |          |
| Element Name               | Element Value | Comments |
| extb                       | '1'B          |          |
| ton                        | '001'B        |          |
| npi                        | '0001'B       |          |
| <b>Detailed Comments:</b>  |               |          |

| Structured Type Constraint |               |          |
|----------------------------|---------------|----------|
| <b>Constraint Name:</b>    | TonNpi_04     |          |
| <b>Structured Type:</b>    | TON_NPI       |          |
| <b>Derivation Path:</b>    |               |          |
| <b>Comments:</b>           |               |          |
| Element Name               | Element Value | Comments |
| extb                       | '1'B          |          |
| ton                        | ?             |          |
| npi                        | ?             |          |
| <b>Detailed Comments:</b>  |               |          |

| Structured Type Constraint |                                                 |          |
|----------------------------|-------------------------------------------------|----------|
| <b>Constraint Name:</b>    | UnknownIE_01                                    |          |
| <b>Structured Type:</b>    | UNKWN                                           |          |
| <b>Derivation Path:</b>    |                                                 |          |
| <b>Comments:</b>           | An invalid IE coded as comprehension required . |          |
| Element Name               | Element Value                                   | Comments |
| iei                        | '00000000'B                                     |          |
| iel                        | '01'O                                           |          |
| contents                   | '54'O                                           |          |
| <b>Detailed Comments:</b>  |                                                 |          |

| Structured Type Constraint |                                     |          |
|----------------------------|-------------------------------------|----------|
| <b>Constraint Name:</b>    | UnknownIE_02                        |          |
| <b>Structured Type:</b>    | UNKWN                               |          |
| <b>Derivation Path:</b>    |                                     |          |
| <b>Comments:</b>           | An invalid FIE coded as unknown IE. |          |
| Element Name               | Element Value                       | Comments |
| iei                        | '01001100'B                         |          |
| iel                        | '01'O                               |          |
| contents                   | 'FF'O                               |          |
| <b>Detailed Comments:</b>  |                                     |          |

| Structured Type Constraint |                    |          |
|----------------------------|--------------------|----------|
| <b>Constraint Name:</b>    | UnknownIE          |          |
| <b>Structured Type:</b>    | CHD                |          |
| <b>Derivation Path:</b>    |                    |          |
| <b>Comments:</b>           | used as unknown IE |          |
| Element Name               | Element Value      | Comments |
| iei                        | '01101001'B        |          |
| cht_schn                   | '00000'B           |          |
| tn                         | '010'B             |          |
| tsc                        | '101'B             |          |
| hch                        | '1'B               |          |
| maio                       | '001100'B          |          |
| hsn                        | '101010'B          |          |
| spr                        | OMIT               |          |
| arfcn                      | OMIT               |          |
| <b>Detailed Comments:</b>  |                    |          |

| Structured Type Constraint |                                                                                 |          |
|----------------------------|---------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | CpData_01(tpoa1, rpoa_mt: BCDN; rpmr: MR; timezone: TZONES)                     |          |
| <b>Structured Type:</b>    | CPDATA                                                                          |          |
| <b>Derivation Path:</b>    |                                                                                 |          |
| <b>Comments:</b>           |                                                                                 |          |
| Element Name               | Element Value                                                                   | Comments |
| iei                        | OMIT                                                                            |          |
| iel                        | OC_IntToOct((159 +<br>OC_LengthOfBCDN(tpoa1) +<br>OC_LengthOfBCDN(rpoa_mt)), 1) |          |
| rpack                      | OMIT                                                                            |          |
| rpdata                     | RpData_01(rpoa_mt, tpoa1, rpmr,<br>timezone)                                    |          |
| rperr                      | OMIT                                                                            |          |
| rpsmma                     | OMIT                                                                            |          |
| <b>Detailed Comments:</b>  |                                                                                 |          |

| Structured Type Constraint |                     |          |
|----------------------------|---------------------|----------|
| <b>Constraint Name:</b>    | CpData_02(rpmr: MR) |          |
| <b>Structured Type:</b>    | CPDATA              |          |
| <b>Derivation Path:</b>    |                     |          |
| <b>Comments:</b>           |                     |          |
| Element Name               | Element Value       | Comments |
| iei                        | OMIT                |          |
| iel                        | ?                   |          |
| rpack                      | RpAck_01(rpmr)      |          |
| rpdata                     | OMIT                |          |
| rperr                      | OMIT                |          |
| rpsmma                     | OMIT                |          |
| <b>Detailed Comments:</b>  |                     |          |

| <b>Structured Type Constraint</b>                 |               |          |
|---------------------------------------------------|---------------|----------|
| <b>Constraint Name:</b> CpData_03(rpdatt: RPDATA) |               |          |
| <b>Structured Type:</b> CPDATA                    |               |          |
| <b>Derivation Path:</b>                           |               |          |
| <b>Comments:</b>                                  |               |          |
| Element Name                                      | Element Value | Comments |
| iei                                               | OMIT          |          |
| iel                                               | ?             |          |
| rpack                                             | OMIT          |          |
| rpdatt                                            | rpdatt        |          |
| rperr                                             | OMIT          |          |
| rpsmma                                            | OMIT          |          |
| <b>Detailed Comments:</b>                         |               |          |

| <b>Structured Type Constraint</b>           |                |          |
|---------------------------------------------|----------------|----------|
| <b>Constraint Name:</b> CpData_04(rpmr: MR) |                |          |
| <b>Structured Type:</b> CPDATA              |                |          |
| <b>Derivation Path:</b>                     |                |          |
| <b>Comments:</b>                            |                |          |
| Element Name                                | Element Value  | Comments |
| iei                                         | OMIT           |          |
| iel                                         | '02'O          |          |
| rpack                                       | RpAck_02(rpmr) |          |
| rpdatt                                      | OMIT           |          |
| rperr                                       | OMIT           |          |
| rpsmma                                      | OMIT           |          |
| <b>Detailed Comments:</b>                   |                |          |

| <b>Structured Type Constraint</b>                                                   |                                                                                 |          |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b> CpData_05(tpoa1, rpoa_mt: BCDN; rpmr: MR; timezone: TZONES) |                                                                                 |          |
| <b>Structured Type:</b> CPDATA                                                      |                                                                                 |          |
| <b>Derivation Path:</b>                                                             |                                                                                 |          |
| <b>Comments:</b>                                                                    |                                                                                 |          |
| Element Name                                                                        | Element Value                                                                   | Comments |
| iei                                                                                 | OMIT                                                                            |          |
| iel                                                                                 | OC_IntToOct((159 +<br>OC_LengthOfBCDN(tpoa1) +<br>OC_LengthOfBCDN(rpoa_mt)), 1) |          |
| rpack                                                                               | OMIT                                                                            |          |
| rpdatt                                                                              | RpData_05(rpoa_mt, tpoa1, rpmr,<br>timezone)                                    |          |
| rperr                                                                               | OMIT                                                                            |          |
| rpsmma                                                                              | OMIT                                                                            |          |
| <b>Detailed Comments:</b>                                                           |                                                                                 |          |

| Structured Type Constraint |                                                                                 |          |
|----------------------------|---------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | CpData_06(tpoa1, rpoa_mt: BCDN; rpmr: MR; timezone: TZONES)                     |          |
| <b>Structured Type:</b>    | CPDATA                                                                          |          |
| <b>Derivation Path:</b>    |                                                                                 |          |
| <b>Comments:</b>           |                                                                                 |          |
| Element Name               | Element Value                                                                   | Comments |
| iei                        | OMIT                                                                            |          |
| iel                        | OC_IntToOct((159 +<br>OC_LengthOfBCDN(tpoa1) +<br>OC_LengthOfBCDN(rpoa_mt)), 1) |          |
| rpack                      | OMIT                                                                            |          |
| rpdata                     | RpData_06(rpoa_mt, tpoa1, rpmr,<br>timezone)                                    |          |
| rperr                      | OMIT                                                                            |          |
| rpsmma                     | OMIT                                                                            |          |
| <b>Detailed Comments:</b>  |                                                                                 |          |

| Structured Type Constraint |                                       |          |
|----------------------------|---------------------------------------|----------|
| <b>Constraint Name:</b>    | CpData_07(rpmr: MR)                   |          |
| <b>Structured Type:</b>    | CPDATA                                |          |
| <b>Derivation Path:</b>    |                                       |          |
| <b>Comments:</b>           | RP Error: Protocol Error, unspecified |          |
| Element Name               | Element Value                         | Comments |
| iei                        | OMIT                                  |          |
| iel                        | ?                                     |          |
| rpack                      | OMIT                                  |          |
| rpdata                     | OMIT                                  |          |
| rperr                      | RpError_01(rpmr)                      |          |
| rpsmma                     | OMIT                                  |          |
| <b>Detailed Comments:</b>  |                                       |          |

| Structured Type Constraint |                                      |          |
|----------------------------|--------------------------------------|----------|
| <b>Constraint Name:</b>    | CpData_08(rpmr: MR)                  |          |
| <b>Structured Type:</b>    | CPDATA                               |          |
| <b>Derivation Path:</b>    |                                      |          |
| <b>Comments:</b>           | RP Error: Memory Capability Exceeded |          |
| Element Name               | Element Value                        | Comments |
| iei                        | OMIT                                 |          |
| iel                        | ?                                    |          |
| rpack                      | OMIT                                 |          |
| rpdata                     | OMIT                                 |          |
| rperr                      | RpError_02(rpmr)                     |          |
| rpsmma                     | OMIT                                 |          |
| <b>Detailed Comments:</b>  |                                      |          |

| Structured Type Constraint |               |          |
|----------------------------|---------------|----------|
| <b>Constraint Name:</b>    | CpData_09     |          |
| <b>Structured Type:</b>    | CPDATA        |          |
| <b>Derivation Path:</b>    |               |          |
| <b>Comments:</b>           | RP_SMAA       |          |
| Element Name               | Element Value | Comments |
| iei                        | OMIT          |          |
| iel                        | ?             |          |
| rpack                      | OMIT          |          |
| rpdata                     | OMIT          |          |
| rperr                      | OMIT          |          |
| rpsmma                     | RpSMMA_01     |          |
| <b>Detailed Comments:</b>  |               |          |

| Structured Type Constraint |                                                                                 |          |
|----------------------------|---------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | CpData_10(tpoa1, rpoa_mt: BCDN; rpmr: MR; timezone: TZONES)                     |          |
| <b>Structured Type:</b>    | CPDATA                                                                          |          |
| <b>Derivation Path:</b>    |                                                                                 |          |
| <b>Comments:</b>           |                                                                                 |          |
| Element Name               | Element Value                                                                   | Comments |
| iei                        | OMIT                                                                            |          |
| iel                        | OC_IntToOct((159 +<br>OC_LengthOfBCDN(tpoa1) +<br>OC_LengthOfBCDN(rpoa_mt)), 1) |          |
| rpack                      | OMIT                                                                            |          |
| rpdata                     | RpData_07(rpoa_mt, tpoa1, rpmr,<br>timezone)                                    |          |
| rperr                      | OMIT                                                                            |          |
| rpsmma                     | OMIT                                                                            |          |
| <b>Detailed Comments:</b>  |                                                                                 |          |

| Structured Type Constraint |                                                                               |          |
|----------------------------|-------------------------------------------------------------------------------|----------|
| <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>Comments:</b>           | n -> ms, RP DATA(SMS-STATUS-REPORT)                                           |          |
| Element Name               | Element Value                                                                 | Comments |
| iei                        | OMIT                                                                          |          |
| iel                        | OC_IntToOct((25 +<br>OC_LengthOfBCDN(tpda) +<br>OC_LengthOfBCDN(rpoa_mt)), 1) |          |
| rpack                      | OMIT                                                                          |          |
| rpdata                     | RpData_09(rpoa_mt, tpda, tpmr, rpmr,<br>timezone)                             |          |
| rperr                      | OMIT                                                                          |          |
| rpsmma                     | OMIT                                                                          |          |
| <b>Detailed Comments:</b>  |                                                                               |          |

| Structured Type Constraint |                                                                                                     |          |
|----------------------------|-----------------------------------------------------------------------------------------------------|----------|
| <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>Comments:</b>           |                                                                                                     |          |
| Element Name               | Element Value                                                                                       | Comments |
| iei                        | OMIT                                                                                                |          |
| iel                        | OC_IntToOct((159 +<br>OC_LengthOfBCDN(tpoa1) +<br>OC_LengthOfBCDN(rpoa_mt)), 1)                     |          |
| rpack                      | OMIT                                                                                                |          |
| rpdata                     | RpData_12(tpoa1, rpoa_mt, smtype, text,<br>rpmr, timezone)                                          |          |
| rperr                      | OMIT                                                                                                |          |
| rpsmma                     | OMIT                                                                                                |          |
| <b>Detailed Comments:</b>  |                                                                                                     |          |

| Structured Type Constraint |                                                                                    |          |
|----------------------------|------------------------------------------------------------------------------------|----------|
| <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>Comments:</b>           |                                                                                    |          |
| Element Name               | Element Value                                                                      | Comments |
| iei                        | OMIT                                                                               |          |
| iel                        | OC_IntToOct((159 +<br>OC_LengthOfBCDN(tpoa1) +<br>OC_LengthOfBCDN(rpoa_mt)), 1)    |          |
| rpack                      | OMIT                                                                               |          |
| rpdata                     | RpData_13(tpoa1, rpoa_mt, text, rpmr,<br>timezone)                                 |          |
| rperr                      | OMIT                                                                               |          |
| rpsmma                     | OMIT                                                                               |          |
| <b>Detailed Comments:</b>  |                                                                                    |          |

| Structured Type Constraint |                                        |          |
|----------------------------|----------------------------------------|----------|
| <b>Constraint Name:</b>    | CpData_17(tpda, rpd: BCDN; tpud: TPUD) |          |
| <b>Structured Type:</b>    | CPDATA                                 |          |
| <b>Derivation Path:</b>    |                                        |          |
| <b>Comments:</b>           |                                        |          |
| Element Name               | Element Value                          | Comments |
| iei                        | OMIT                                   |          |
| iel                        | ?                                      |          |
| rpack                      | OMIT                                   |          |
| rpdata                     | RpData_14(tpda, rpd, tpud)             |          |
| rperr                      | OMIT                                   |          |
| rpsmma                     | OMIT                                   |          |
| <b>Detailed Comments:</b>  |                                        |          |



| Structured Type Constraint |                                                             |          |
|----------------------------|-------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | RpData_01(rpoa_mt, tpoa1: BCDN; rpmr: MR; timezone: TZONES) |          |
| <b>Structured Type:</b>    | RPDATA                                                      |          |
| <b>Derivation Path:</b>    |                                                             |          |
| <b>Comments:</b>           | n->ms                                                       |          |
| Element Name               | Element Value                                               | Comments |
| sprb                       | '00000'B                                                    |          |
| rpmti                      | '001'B                                                      |          |
| rpmr                       | rpmr                                                        |          |
| rpOaddr                    | RpOrigAddr_01(rpoa_mt)                                      |          |
| rpDaddr                    | RpDestAddr_01                                               |          |
| rpusrdat                   | RpUsrData_01(tpoa1, timezone)                               |          |
| <b>Detailed Comments:</b>  |                                                             |          |

| Structured Type Constraint |               |          |
|----------------------------|---------------|----------|
| <b>Constraint Name:</b>    | RpData_03     |          |
| <b>Structured Type:</b>    | RPDATA        |          |
| <b>Derivation Path:</b>    |               |          |
| <b>Comments:</b>           | ms->n         |          |
| Element Name               | Element Value | Comments |
| sprb                       | '00000'B      |          |
| rpmti                      | '000'B        |          |
| rpmr                       | ?             |          |
| rpOaddr                    | RpOrigAddr_02 |          |
| rpDaddr                    | RpDestAddr_02 |          |
| rpusrdat                   | RpUsrData_02  |          |
| <b>Detailed Comments:</b>  |               |          |

| Structured Type Constraint |                                                             |          |
|----------------------------|-------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | RpData_05(rpoa_mt, tpoa1: BCDN; rpmr: MR; timezone: TZONES) |          |
| <b>Structured Type:</b>    | RPDATA                                                      |          |
| <b>Derivation Path:</b>    |                                                             |          |
| <b>Comments:</b>           | n->ms                                                       |          |
| Element Name               | Element Value                                               | Comments |
| sprb                       | '00000'B                                                    |          |
| rpmti                      | '001'B                                                      |          |
| rpmr                       | rpmr                                                        |          |
| rpOaddr                    | RpOrigAddr_01(rpoa_mt)                                      |          |
| rpDaddr                    | RpDestAddr_01                                               |          |
| rpusrdat                   | RpUsrData_03(tpoa1, timezone)                               |          |
| <b>Detailed Comments:</b>  |                                                             |          |

| Structured Type Constraint |                                                             |          |
|----------------------------|-------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | RpData_06(rpoa_mt, tpoa1: BCDN; rpmr: MR; timezone: TZONES) |          |
| <b>Structured Type:</b>    | RPDATA                                                      |          |
| <b>Derivation Path:</b>    |                                                             |          |
| <b>Comments:</b>           | n->ms                                                       |          |
| Element Name               | Element Value                                               | Comments |
| sprb                       | '00000'B                                                    |          |
| rpmti                      | '001'B                                                      |          |
| rpmr                       | rpmr                                                        |          |
| rpOaddr                    | RpOrigAddr_01(rpoa_mt)                                      |          |
| rpDaddr                    | RpDestAddr_01                                               |          |
| rpusrdat                   | RpUsrData_04(tpoa1, timezone)                               |          |
| <b>Detailed Comments:</b>  |                                                             |          |

| Structured Type Constraint |                                                             |          |
|----------------------------|-------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | RpData_07(rpoa_mt, tpoa1: BCDN; rpmr: MR; timezone: TZONES) |          |
| <b>Structured Type:</b>    | RPDATA                                                      |          |
| <b>Derivation Path:</b>    |                                                             |          |
| <b>Comments:</b>           | n->ms                                                       |          |
| Element Name               | Element Value                                               | Comments |
| sprb                       | '00000'B                                                    |          |
| rpmti                      | '001'B                                                      |          |
| rpmr                       | rpmr                                                        |          |
| rpOaddr                    | RpOrigAddr_01(rpoa_mt)                                      |          |
| rpDaddr                    | RpDestAddr_01                                               |          |
| rpusrdat                   | RpUsrData_05(tpoa1, timezone)                               |          |
| <b>Detailed Comments:</b>  |                                                             |          |

| Structured Type Constraint |                                |          |
|----------------------------|--------------------------------|----------|
| <b>Constraint Name:</b>    | RpData_08                      |          |
| <b>Structured Type:</b>    | RPDATA                         |          |
| <b>Derivation Path:</b>    |                                |          |
| <b>Comments:</b>           | ms->n, status report requested |          |
| Element Name               | Element Value                  | Comments |
| sprb                       | '00000'B                       |          |
| rpmti                      | '000'B                         |          |
| rpmr                       | ?                              |          |
| rpOaddr                    | RpOrigAddr_02                  |          |
| rpDaddr                    | RpDestAddr_02                  |          |
| rpusrdat                   | RpUsrData_06                   |          |
| <b>Detailed Comments:</b>  |                                |          |

| Structured Type Constraint |                                                                      |          |
|----------------------------|----------------------------------------------------------------------|----------|
| <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>Comments:</b>           | n->ms, RP DATA(SMS-STATUS-REPORT)                                    |          |
| Element Name               | Element Value                                                        | Comments |
| sprb                       | '00000'B                                                             |          |
| rpmti                      | '001'B                                                               |          |
| rpmr                       | rpmr                                                                 |          |
| rpOaddr                    | RpOrigAddr_01(rpoa_mt)                                               |          |
| rpDaddr                    | RpDestAddr_01                                                        |          |
| rpusrdat                   | RpUsrData_07(tpda, tpmr, timezone)                                   |          |
| <b>Detailed Comments:</b>  |                                                                      |          |

| Structured Type Constraint |                                         |          |
|----------------------------|-----------------------------------------|----------|
| <b>Constraint Name:</b>    | RpData_11(rpmr: MR; tpcom: SMCMD)       |          |
| <b>Structured Type:</b>    | RPDATA                                  |          |
| <b>Derivation Path:</b>    |                                         |          |
| <b>Comments:</b>           | ms->n, RP data(SMS-COMMAND(Delete))     |          |
| Element Name               | Element Value                           | Comments |
| sprb                       | '00000'B                                |          |
| rpmti                      | '000'B                                  |          |
| rpmr                       | OC_IntToOct((OC_OctToInt(rpmr) + 1), 1) |          |
| rpOaddr                    | RpOrigAddr_02                           |          |
| rpDaddr                    | RpDestAddr_02                           |          |
| rpusrdat                   | RpUsrData_09(tpcom)                     |          |
| <b>Detailed Comments:</b>  |                                         |          |

| Structured Type Constraint |                                                                                                     |          |
|----------------------------|-----------------------------------------------------------------------------------------------------|----------|
| <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>Comments:</b>           | n->ms                                                                                               |          |
| Element Name               | Element Value                                                                                       | Comments |
| sprb                       | '00000'B                                                                                            |          |
| rpmti                      | '001'B                                                                                              |          |
| rpmr                       | rpmr                                                                                                |          |
| rpOaddr                    | RpOrigAddr_03(rpoa_mt)                                                                              |          |
| rpDaddr                    | RpDestAddr_01                                                                                       |          |
| rpusrdat                   | RpUsrData_10(tpoa1, smtype, text, timezone)                                                         |          |
| <b>Detailed Comments:</b>  |                                                                                                     |          |

| Structured Type Constraint |                                                                                   |          |
|----------------------------|-----------------------------------------------------------------------------------|----------|
| <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>Comments:</b>           | n->ms                                                                             |          |
| Element Name               | Element Value                                                                     | Comments |
| sprb                       | '00000'B                                                                          |          |
| rpmti                      | '001'B                                                                            |          |
| rpmr                       | rpmr                                                                              |          |
| rpOaddr                    | RpOrigAddr_03(rpoa_mt)                                                            |          |
| rpDaddr                    | RpDestAddr_01                                                                     |          |
| rpusrdat                   | RpUsrData_11(tpoa, text, timezone)                                                |          |
| <b>Detailed Comments:</b>  |                                                                                   |          |

| Structured Type Constraint |                                               |          |
|----------------------------|-----------------------------------------------|----------|
| <b>Constraint Name:</b>    | RpData_14(tpda: BCDN; rpda: BCDN; tpud: TPUD) |          |
| <b>Structured Type:</b>    | RPDATA                                        |          |
| <b>Derivation Path:</b>    |                                               |          |
| <b>Comments:</b>           | ms->n                                         |          |
| Element Name               | Element Value                                 | Comments |
| sprb                       | '00000'B                                      |          |
| rpmti                      | '000'B                                        |          |
| rpmr                       | ?                                             |          |
| rpOaddr                    | RpOrigAddr_02                                 |          |
| rpDaddr                    | RpDestAddr_03(rpda)                           |          |
| rpusrdat                   | RpUsrData_12(tpda, tpud)                      |          |
| <b>Detailed Comments:</b>  |                                               |          |

| Structured Type Constraint |                    |          |
|----------------------------|--------------------|----------|
| <b>Constraint Name:</b>    | RpAck_01(rpmr: MR) |          |
| <b>Structured Type:</b>    | RPACK              |          |
| <b>Derivation Path:</b>    |                    |          |
| <b>Comments:</b>           | ms->n              |          |
| Element Name               | Element Value      | Comments |
| sprb                       | '00000'B           |          |
| rpmti                      | '010'B             |          |
| rpmr                       | rpmr               |          |
| <b>Detailed Comments:</b>  |                    |          |

| Structured Type Constraint |                    |          |
|----------------------------|--------------------|----------|
| <b>Constraint Name:</b>    | RpAck_02(rpmr: MR) |          |
| <b>Structured Type:</b>    | RPACK              |          |
| <b>Derivation Path:</b>    |                    |          |
| <b>Comments:</b>           | RP_ACK n->ms       |          |
| Element Name               | Element Value      | Comments |
| sprb                       | '00000'B           |          |
| rpmti                      | '011'B             |          |
| rpmr                       | rpmr               |          |
| <b>Detailed Comments:</b>  |                    |          |

| Structured Type Constraint |                             |          |
|----------------------------|-----------------------------|----------|
| <b>Constraint Name:</b>    | RpError_01(rpmr: MR)        |          |
| <b>Structured Type:</b>    | RPERR                       |          |
| <b>Derivation Path:</b>    |                             |          |
| <b>Comments:</b>           | Protocol error, unspecified |          |
| Element Name               | Element Value               | Comments |
| sprb                       | '00000'B                    |          |
| rpmti                      | '100'B                      |          |
| rpmr                       | rpmr                        |          |
| rpcau                      | RpCause_01                  |          |
| rpusrdat                   | OMIT                        |          |
| <b>Detailed Comments:</b>  |                             |          |

| Structured Type Constraint |                          |          |
|----------------------------|--------------------------|----------|
| <b>Constraint Name:</b>    | RpError_02(rpmr: MR)     |          |
| <b>Structured Type:</b>    | RPERR                    |          |
| <b>Derivation Path:</b>    |                          |          |
| <b>Comments:</b>           | Memory Capacity Exceeded |          |
| Element Name               | Element Value            | Comments |
| sprb                       | '00000'B                 |          |
| rpmti                      | '100'B                   |          |
| rpmr                       | rpmr                     |          |
| rpcau                      | RpCause_02               |          |
| rpusrdat                   | OMIT                     |          |
| <b>Detailed Comments:</b>  |                          |          |

| Structured Type Constraint |                                                       |          |
|----------------------------|-------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | RpCause_01                                            |          |
| <b>Structured Type:</b>    | RPCAU                                                 |          |
| <b>Derivation Path:</b>    |                                                       |          |
| <b>Comments:</b>           | ms->n, Protocol error, unspecified, cause number 111. |          |
| Element Name               | Element Value                                         | Comments |
| iei                        | OMIT                                                  |          |
| iel                        | ?                                                     |          |
| extb2                      | '0'B                                                  |          |
| rpcau_class                | '110'B                                                |          |
| rpcau_va                   | '1111'B                                               |          |
| rpcau_di                   | *                                                     |          |
| <b>Detailed Comments:</b>  |                                                       |          |

| Structured Type Constraint |                                                   |          |
|----------------------------|---------------------------------------------------|----------|
| <b>Constraint Name:</b>    | RpCause_02                                        |          |
| <b>Structured Type:</b>    | RPCAU                                             |          |
| <b>Derivation Path:</b>    |                                                   |          |
| <b>Comments:</b>           | ms->n, Memory Capacity Exceeded, cause number 22. |          |
| Element Name               | Element Value                                     | Comments |
| iei                        | OMIT                                              |          |
| iel                        | ?                                                 |          |
| extb2                      | '0'B                                              |          |
| rpcau_class                | '001'B                                            |          |
| rpcau_va                   | '0110'B                                           |          |
| rpcau_di                   | *                                                 |          |
| <b>Detailed Comments:</b>  |                                                   |          |

| Structured Type Constraint |               |          |
|----------------------------|---------------|----------|
| <b>Constraint Name:</b>    | RpSMMA_01     |          |
| <b>Structured Type:</b>    | RPSMMA        |          |
| <b>Derivation Path:</b>    |               |          |
| <b>Comments:</b>           | ms->n         |          |
| Element Name               | Element Value | Comments |
| sprb                       | '00000'B      |          |
| rpmti                      | '110'B        |          |
| rpmr                       | ?             |          |
| <b>Detailed Comments:</b>  |               |          |

| Structured Type Constraint |                                                   |          |
|----------------------------|---------------------------------------------------|----------|
| <b>Constraint Name:</b>    | RpUsrData_01(tpoa1: BCDN; timezone: TZONES)       |          |
| <b>Structured Type:</b>    | RPUSRDAT                                          |          |
| <b>Derivation Path:</b>    |                                                   |          |
| <b>Comments:</b>           |                                                   |          |
| Element Name               | Element Value                                     | Comments |
| iei                        | OMIT                                              |          |
| iel                        | OC_IntToOct((153 +<br>OC_LengthOfBCDN(tpoa1)), 1) |          |
| tpdeliver                  | TpDeliver_01(tpoa1, timezone)                     |          |
| tpsubmit                   | OMIT                                              |          |
| tpstatus_rpt               | OMIT                                              |          |
| tpcommand                  | OMIT                                              |          |
| tpdlvr_sbmt_rpt            | OMIT                                              |          |
| <b>Detailed Comments:</b>  |                                                   |          |

| Structured Type Constraint |               |          |
|----------------------------|---------------|----------|
| <b>Constraint Name:</b>    | RpUsrData_02  |          |
| <b>Structured Type:</b>    | RPUSRDAT      |          |
| <b>Derivation Path:</b>    |               |          |
| <b>Comments:</b>           |               |          |
| Element Name               | Element Value | Comments |
| iei                        | OMIT          |          |
| iel                        | ?             |          |
| tpdeliver                  | OMIT          |          |
| tpsubmit                   | TpSubmit_01   |          |
| tpstatus_rpt               | OMIT          |          |
| tpcommand                  | OMIT          |          |
| tpdlvr_sbmt_rpt            | OMIT          |          |
| <b>Detailed Comments:</b>  |               |          |

| Structured Type Constraint |                                              |          |
|----------------------------|----------------------------------------------|----------|
| <b>Constraint Name:</b>    | RpUsrData_03(tpoa1: BCDN; timezone: TZONES)  |          |
| <b>Structured Type:</b>    | RPUSRDAT                                     |          |
| <b>Derivation Path:</b>    |                                              |          |
| <b>Comments:</b>           |                                              |          |
| Element Name               | Element Value                                | Comments |
| iei                        | OMIT                                         |          |
| iel                        | OC_IntToOct((153+OC_LengthOfBCDN(tpoa1)), 1) |          |
| tpdeliver                  | TpDeliver_02(tpoa1, timezone)                |          |
| tpsubmit                   | OMIT                                         |          |
| tpstatus_rpt               | OMIT                                         |          |
| tpcommand                  | OMIT                                         |          |
| tpdlvr_sbmt_rpt            | OMIT                                         |          |
| <b>Detailed Comments:</b>  |                                              |          |

| Structured Type Constraint |                                                |          |
|----------------------------|------------------------------------------------|----------|
| <b>Constraint Name:</b>    | RpUsrData_04(tpoa1: BCDN; timezone: TZONES)    |          |
| <b>Structured Type:</b>    | RPUSRDAT                                       |          |
| <b>Derivation Path:</b>    |                                                |          |
| <b>Comments:</b>           |                                                |          |
| Element Name               | Element Value                                  | Comments |
| iei                        | OMIT                                           |          |
| iel                        | OC_IntToOct((153 + OC_LengthOfBCDN(tpoa1)), 1) |          |
| tpdeliver                  | TpDeliver_03(tpoa1, timezone)                  |          |
| tpsubmit                   | OMIT                                           |          |
| tpstatus_rpt               | OMIT                                           |          |
| tpcommand                  | OMIT                                           |          |
| tpdlvr_sbmt_rpt            | OMIT                                           |          |
| <b>Detailed Comments:</b>  |                                                |          |

| Structured Type Constraint |                                              |          |
|----------------------------|----------------------------------------------|----------|
| <b>Constraint Name:</b>    | RpUsrData_05(tpoa1: BCDN; timezone: TZONES)  |          |
| <b>Structured Type:</b>    | RPUSRDAT                                     |          |
| <b>Derivation Path:</b>    |                                              |          |
| <b>Comments:</b>           |                                              |          |
| Element Name               | Element Value                                | Comments |
| iei                        | OMIT                                         |          |
| iel                        | OC_IntToOct((153+OC_LengthOfBCDN(tpoa1)), 1) |          |
| tpdeliver                  | TpDeliver_04(tpoa1, timezone)                |          |
| tpsubmit                   | OMIT                                         |          |
| tpstatus_rpt               | OMIT                                         |          |
| tpcommand                  | OMIT                                         |          |
| tpdlvr_sbmt_rpt            | OMIT                                         |          |
| <b>Detailed Comments:</b>  |                                              |          |

| Structured Type Constraint |               |          |
|----------------------------|---------------|----------|
| <b>Constraint Name:</b>    | RpUsrData_06  |          |
| <b>Structured Type:</b>    | RPUSRDAT      |          |
| <b>Derivation Path:</b>    |               |          |
| <b>Comments:</b>           |               |          |
| Element Name               | Element Value | Comments |
| iei                        | OMIT          |          |
| iel                        | ?             |          |
| tpdeliver                  | OMIT          |          |
| tpsubmit                   | TpSubmit_02   |          |
| tpstatus_rpt               | OMIT          |          |
| tpcommand                  | OMIT          |          |
| tpdlvr_sbmt_rpt            | OMIT          |          |
| <b>Detailed Comments:</b>  |               |          |

| Structured Type Constraint |                                                    |          |
|----------------------------|----------------------------------------------------|----------|
| <b>Constraint Name:</b>    | RpUsrData_07(tpda: BCDN; mr: MR; timezone: TZONES) |          |
| <b>Structured Type:</b>    | RPUSRDAT                                           |          |
| <b>Derivation Path:</b>    |                                                    |          |
| <b>Comments:</b>           |                                                    |          |
| Element Name               | Element Value                                      | Comments |
| iei                        | OMIT                                               |          |
| iel                        | OC_IntToOct((19 +<br>OC_LengthOfBCDN(tpda)), 1)    |          |
| tpdeliver                  | OMIT                                               |          |
| tpsubmit                   | OMIT                                               |          |
| tpstatus_rpt               | TpStatusReport_01(tpda, mr, timezone)              |          |
| tpcommand                  | OMIT                                               |          |
| tpdlvr_sbmt_rpt            | OMIT                                               |          |
| <b>Detailed Comments:</b>  |                                                    |          |

| Structured Type Constraint |                            |          |
|----------------------------|----------------------------|----------|
| <b>Constraint Name:</b>    | RpUsrData_09(tpcom: SMCMD) |          |
| <b>Structured Type:</b>    | RPUSRDAT                   |          |
| <b>Derivation Path:</b>    |                            |          |
| <b>Comments:</b>           | SMS-COMMAND(Delete)        |          |
| Element Name               | Element Value              | Comments |
| iei                        | OMIT                       |          |
| iel                        | ?                          |          |
| tpdeliver                  | OMIT                       |          |
| tpsubmit                   | OMIT                       |          |
| tpstatus_rpt               | OMIT                       |          |
| tpcommand                  | tpcom                      |          |
| tpdlvr_sbmt_rpt            | OMIT                       |          |
| <b>Detailed Comments:</b>  |                            |          |

| Structured Type Constraint |                                                                               |          |
|----------------------------|-------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | RpUsrData_10(tpoa1: BCDN; smtype: INTEGER; text: IA5String; timezone: TZONES) |          |
| <b>Structured Type:</b>    | RPUSRDAT                                                                      |          |
| <b>Derivation Path:</b>    |                                                                               |          |
| <b>Comments:</b>           |                                                                               |          |
| Element Name               | Element Value                                                                 | Comments |
| iei                        | OMIT                                                                          |          |
| iel                        | OC_IntToOct((153+OC_LengthOfBCDN(tpoa1)), 1)                                  |          |
| tpdeliver                  | TpDeliver_05(tpoa1, smtype, text, timezone)                                   |          |
| tpsubmit                   | OMIT                                                                          |          |
| tpstatus_rpt               | OMIT                                                                          |          |
| tpcommand                  | OMIT                                                                          |          |
| tpdlvr_sbmt_rpt            | OMIT                                                                          |          |
| <b>Detailed Comments:</b>  |                                                                               |          |

| Structured Type Constraint |                                                              |          |
|----------------------------|--------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | RpUsrData_11(tpoa1: BCDN; text: IA5String; timezone: TZONES) |          |
| <b>Structured Type:</b>    | RPUSRDAT                                                     |          |
| <b>Derivation Path:</b>    |                                                              |          |
| <b>Comments:</b>           |                                                              |          |
| Element Name               | Element Value                                                | Comments |
| iei                        | OMIT                                                         |          |
| iel                        | OC_IntToOct((153+OC_LengthOfBCDN(tpoa1)), 1)                 |          |
| tpdeliver                  | TpDeliver_06(tpoa1, text, timezone)                          |          |
| tpsubmit                   | OMIT                                                         |          |
| tpstatus_rpt               | OMIT                                                         |          |
| tpcommand                  | OMIT                                                         |          |
| tpdlvr_sbmt_rpt            | OMIT                                                         |          |
| <b>Detailed Comments:</b>  |                                                              |          |

| Structured Type Constraint |                                      |          |
|----------------------------|--------------------------------------|----------|
| <b>Constraint Name:</b>    | RpUsrData_12(tpda: BCDN; tpud: TPUD) |          |
| <b>Structured Type:</b>    | RPUSRDAT                             |          |
| <b>Derivation Path:</b>    |                                      |          |
| <b>Comments:</b>           |                                      |          |
| Element Name               | Element Value                        | Comments |
| iei                        | OMIT                                 |          |
| iel                        | ?                                    |          |
| tpdeliver                  | OMIT                                 |          |
| tpsubmit                   | TpSubmit_03(tpda, tpud)              |          |
| tpstatus_rpt               | OMIT                                 |          |
| tpcommand                  | OMIT                                 |          |
| tpdlvr_sbmt_rpt            | OMIT                                 |          |
| <b>Detailed Comments:</b>  |                                      |          |



| Structured Type Constraint |                                             |          |
|----------------------------|---------------------------------------------|----------|
| <b>Constraint Name:</b>    | TpDeliver_01(tpoa1: BCDN; timezone: TZONES) |          |
| <b>Structured Type:</b>    | SMDLVR                                      |          |
| <b>Derivation Path:</b>    |                                             |          |
| <b>Comments:</b>           |                                             |          |
| Element Name               | Element Value                               | Comments |
| rp                         | '0'B                                        |          |
| udhi                       | '0'B                                        |          |
| sri                        | '0'B                                        |          |
| sprb2                      | '00'B                                       |          |
| mms                        | '0'B                                        |          |
| mti                        | '00'B                                       |          |
| oa                         | SmOrigAddr_01(tpoa1)                        |          |
| pid                        | Tppid_01                                    |          |
| dcs                        | Tpdcs_01                                    |          |
| scts                       | OC_GetSCTimeStamp(timezone)                 |          |
| udl                        | 'A0'O                                       |          |
| ud                         | OC_ComputeSMContents(160)                   |          |
| <b>Detailed Comments:</b>  |                                             |          |

| Structured Type Constraint |                                             |          |
|----------------------------|---------------------------------------------|----------|
| <b>Constraint Name:</b>    | TpDeliver_02(tpoa1: BCDN; timezone: TZONES) |          |
| <b>Structured Type:</b>    | SMDLVR                                      |          |
| <b>Derivation Path:</b>    |                                             |          |
| <b>Comments:</b>           |                                             |          |
| Element Name               | Element Value                               | Comments |
| rp                         | '0'B                                        |          |
| udhi                       | '0'B                                        |          |
| sri                        | '0'B                                        |          |
| sprb2                      | '00'B                                       |          |
| mms                        | '0'B                                        |          |
| mti                        | '00'B                                       |          |
| oa                         | SmOrigAddr_01(tpoa1)                        |          |
| pid                        | Tppid_01                                    |          |
| dcs                        | Tpdcs_02                                    |          |
| scts                       | OC_GetSCTimeStamp(timezone)                 |          |
| udl                        | 'A0'O                                       |          |
| ud                         | OC_ComputeSMContents(160)                   |          |
| <b>Detailed Comments:</b>  |                                             |          |

| Structured Type Constraint |                                             |          |
|----------------------------|---------------------------------------------|----------|
| <b>Constraint Name:</b>    | TpDeliver_03(tpoa1: BCDN; timezone: TZONES) |          |
| <b>Structured Type:</b>    | SMDLVR                                      |          |
| <b>Derivation Path:</b>    |                                             |          |
| <b>Comments:</b>           |                                             |          |
| Element Name               | Element Value                               | Comments |
| rp                         | '0'B                                        |          |
| udhi                       | '0'B                                        |          |
| sri                        | '0'B                                        |          |
| sprb2                      | '00'B                                       |          |
| mms                        | '0'B                                        |          |
| mti                        | '00'B                                       |          |
| oa                         | SmOrigAddr_01(tpoa1)                        |          |
| pid                        | Tppid_01                                    |          |
| dcs                        | Tpdcs_03                                    |          |
| scts                       | OC_GetSCTimeStamp(timezone)                 |          |
| udl                        | 'A0'O                                       |          |
| ud                         | OC_ComputeSMContents(160)                   |          |
| <b>Detailed Comments:</b>  |                                             |          |

| Structured Type Constraint |                                             |          |
|----------------------------|---------------------------------------------|----------|
| <b>Constraint Name:</b>    | TpDeliver_04(tpoa1: BCDN; timezone: TZONES) |          |
| <b>Structured Type:</b>    | SMDLVR                                      |          |
| <b>Derivation Path:</b>    |                                             |          |
| <b>Comments:</b>           |                                             |          |
| Element Name               | Element Value                               | Comments |
| rp                         | '0'B                                        |          |
| udhi                       | '0'B                                        |          |
| sri                        | '0'B                                        |          |
| sprb2                      | '00'B                                       |          |
| mms                        | '0'B                                        |          |
| mti                        | '00'B                                       |          |
| oa                         | SmOrigAddr_01(tpoa1)                        |          |
| pid                        | Tppid_01                                    |          |
| dcs                        | Tpdcs_04                                    |          |
| scts                       | OC_GetSCTimeStamp(timezone)                 |          |
| udl                        | 'A0'O                                       |          |
| ud                         | OC_ComputeSMContents(160)                   |          |
| <b>Detailed Comments:</b>  |                                             |          |

| Structured Type Constraint |                                                                              |          |
|----------------------------|------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | TpDeliver_05(tpoa: BCDN; smtype: INTEGER; text: IA5String; timezone: TZONES) |          |
| <b>Structured Type:</b>    | SMDLVR                                                                       |          |
| <b>Derivation Path:</b>    |                                                                              |          |
| <b>Comments:</b>           |                                                                              |          |
| Element Name               | Element Value                                                                | Comments |
| rp                         | '0'B                                                                         |          |
| udhi                       | '0'B                                                                         |          |
| sri                        | '0'B                                                                         |          |
| sprb2                      | '00'B                                                                        |          |
| mms                        | '1'B                                                                         |          |
| mti                        | '00'B                                                                        |          |
| oa                         | SmOrigAddr_02(tpoa)                                                          |          |
| pid                        | Tppid_02(smtype)                                                             |          |
| dcs                        | Tpdcs_01                                                                     |          |
| scts                       | OC_GetSCTimeStamp(timezone)                                                  |          |
| udl                        | 'A0'O                                                                        |          |
| ud                         | OC_ComputeSMContentsSpecText(160, text)                                      |          |
| <b>Detailed Comments:</b>  |                                                                              |          |

| Structured Type Constraint |                                                             |          |
|----------------------------|-------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | TpDeliver_06(tpoa: BCDN; text: IA5String; timezone: TZONES) |          |
| <b>Structured Type:</b>    | SMDLVR                                                      |          |
| <b>Derivation Path:</b>    |                                                             |          |
| <b>Comments:</b>           |                                                             |          |
| Element Name               | Element Value                                               | Comments |
| rp                         | '1'B                                                        |          |
| udhi                       | '0'B                                                        |          |
| sri                        | '0'B                                                        |          |
| sprb2                      | '00'B                                                       |          |
| mms                        | '1'B                                                        |          |
| mti                        | '00'B                                                       |          |
| oa                         | SmOrigAddr_02(tpoa)                                         |          |
| pid                        | Tppid_01                                                    |          |
| dcs                        | Tpdcs_01                                                    |          |
| scts                       | OC_GetSCTimeStamp(timezone)                                 |          |
| udl                        | 'A0'O                                                       |          |
| ud                         | OC_ComputeSMContentsSpecText(160, text)                     |          |
| <b>Detailed Comments:</b>  |                                                             |          |

| Structured Type Constraint          |               |          |
|-------------------------------------|---------------|----------|
| <b>Constraint Name:</b> TpSubmit_01 |               |          |
| <b>Structured Type:</b> SMSBMT      |               |          |
| <b>Derivation Path:</b>             |               |          |
| <b>Comments:</b>                    |               |          |
| Element Name                        | Element Value | Comments |
| rp                                  | ?             |          |
| udhi                                | ?             |          |
| srr                                 | ?             |          |
| vpf                                 | ?             |          |
| rd                                  | ?             |          |
| mti                                 | '01'B         |          |
| mr                                  | ?             |          |
| da                                  | SmDestAddr_01 |          |
| pid                                 | Tppid_01      |          |
| dcs                                 | Tpdcs_01      |          |
| vp1                                 | ?             |          |
| vp7                                 | OMIT          |          |
| udl                                 | ?             |          |
| ud                                  | ?             |          |
| <b>Detailed Comments:</b>           |               |          |

| Structured Type Constraint               |               |          |
|------------------------------------------|---------------|----------|
| <b>Constraint Name:</b> TpSubmit_02      |               |          |
| <b>Structured Type:</b> SMSBMT           |               |          |
| <b>Derivation Path:</b>                  |               |          |
| <b>Comments:</b> status report requested |               |          |
| Element Name                             | Element Value | Comments |
| rp                                       | '0'B          |          |
| udhi                                     | ?             |          |
| srr                                      | '1'B          |          |
| vpf                                      | ?             |          |
| rd                                       | ?             |          |
| mti                                      | '01'B         |          |
| mr                                       | ?             |          |
| da                                       | SmDestAddr_01 |          |
| pid                                      | Tppid_01      |          |
| dcs                                      | Tpdcs_01      |          |
| vp1                                      | ?             |          |
| vp7                                      | OMIT          |          |
| udl                                      | ?             |          |
| ud                                       | ?             |          |
| <b>Detailed Comments:</b>                |               |          |

| Structured Type Constraint |                                     |          |
|----------------------------|-------------------------------------|----------|
| <b>Constraint Name:</b>    | TpSubmit_03(tpda: BCDN; tpud: TPUD) |          |
| <b>Structured Type:</b>    | SMSBMT                              |          |
| <b>Derivation Path:</b>    |                                     |          |
| <b>Comments:</b>           |                                     |          |
| Element Name               | Element Value                       | Comments |
| rp                         | ?                                   |          |
| udhi                       | ?                                   |          |
| srr                        | ?                                   |          |
| vpf                        | '10'B                               |          |
| rd                         | ?                                   |          |
| mti                        | '01'B                               |          |
| mr                         | ?                                   |          |
| da                         | SmDestAddr_02(tpda)                 |          |
| pid                        | Tppid_01                            |          |
| dcs                        | Tpdcs_01                            |          |
| vp1                        | 'A7'O                               |          |
| vp7                        | OMIT                                |          |
| udl                        | ?                                   |          |
| ud                         | tpud                                |          |
| <b>Detailed Comments:</b>  |                                     |          |

| Structured Type Constraint |                                                         |          |
|----------------------------|---------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | TpStatusReport_01(tpda: BCDN; mr: MR; timezone: TZONES) |          |
| <b>Structured Type:</b>    | SMST_RPT                                                |          |
| <b>Derivation Path:</b>    |                                                         |          |
| <b>Comments:</b>           |                                                         |          |
| Element Name               | Element Value                                           | Comments |
| sprb1                      | '00000'B                                                |          |
| mms                        | '1'B                                                    |          |
| mti                        | '10'B                                                   |          |
| mr                         | mr                                                      |          |
| ra                         | SmDestAddr_02(tpda)                                     |          |
| scts                       | OC_GetSCTimeStamp(timezone)                             |          |
| dt                         | OC_GetSCTimeStamp(timezone)                             |          |
| st                         | TpStatus_01                                             |          |
| <b>Detailed Comments:</b>  |                                                         |          |

| Structured Type Constraint |                                                                                                                |          |
|----------------------------|----------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | SmOrigAddr_01(tpoa1: BCDN)                                                                                     |          |
| <b>Structured Type:</b>    | TPA                                                                                                            |          |
| <b>Derivation Path:</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                                                                                                  | Comments |
| iel                        | OC_IntToOct((OC_LengthOfBCDN(tpoa1) * 2), 1)                                                                   |          |
| tonnpi                     | TonNpi_03                                                                                                      |          |
| digits                     | tpoa1                                                                                                          |          |
| <b>Detailed Comments:</b>  |                                                                                                                |          |

| Structured Type Constraint |                                                                                                                |          |
|----------------------------|----------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | SmOrigAddr_02(tpoa: BCDN)                                                                                      |          |
| <b>Structured Type:</b>    | TPA                                                                                                            |          |
| <b>Derivation Path:</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                                                                                                  | Comments |
| iel                        | OC_IntToOct((OC_LengthOfBCDN(tpoa) * 2), 1)                                                                    |          |
| tonnpi                     | TonNpi_03                                                                                                      |          |
| digits                     | tpoa                                                                                                           |          |
| <b>Detailed Comments:</b>  |                                                                                                                |          |

| Structured Type Constraint |                                                                                                               |          |
|----------------------------|---------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | SmDestAddr_01                                                                                                 |          |
| <b>Structured Type:</b>    | TPA                                                                                                           |          |
| <b>Derivation Path:</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                                                                                                 | Comments |
| iel                        | ?                                                                                                             |          |
| tonnpi                     | TonNpi_04                                                                                                     |          |
| digits                     | ?                                                                                                             |          |
| <b>Detailed Comments:</b>  |                                                                                                               |          |

| Structured Type Constraint |                                                                                                               |          |
|----------------------------|---------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | SmDestAddr_02(tpda: BCDN)                                                                                     |          |
| <b>Structured Type:</b>    | TPA                                                                                                           |          |
| <b>Derivation Path:</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                                                                                                 | Comments |
| iel                        | OC_IntToOct((OC_LengthOfBCDN(tpda) * 2), 1)                                                                   |          |
| tonnpi                     | TonNpi_03                                                                                                     |          |
| digits                     | tpda                                                                                                          |          |
| <b>Detailed Comments:</b>  |                                                                                                               |          |

| Structured Type Constraint |                                                                                                      |          |
|----------------------------|------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | RpOrigAddr_01(rpoa_mt: BCDN)                                                                         |          |
| <b>Structured Type:</b>    | CDPN                                                                                                 |          |
| <b>Derivation Path:</b>    |                                                                                                      |          |
| <b>Comments:</b>           | Called party BCD number (CC information element)<br>GSM 04.08, 10.5.4.7. Used in SMS-DELIVER (n->ms) |          |
| Element Name               | Element Value                                                                                        | Comments |
| iei                        | OMIT                                                                                                 |          |
| iel                        | OC_IntToOct((OC_LengthOfBCDN(rpoa_mt) + 1), 1)                                                       |          |
| tonnpi                     | TonNpi_03                                                                                            |          |
| digits                     | rpoa_mt                                                                                              |          |
| <b>Detailed Comments:</b>  |                                                                                                      |          |

| Structured Type Constraint |                                                                                                     |          |
|----------------------------|-----------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | RpOrigAddr_02                                                                                       |          |
| <b>Structured Type:</b>    | CDPN                                                                                                |          |
| <b>Derivation Path:</b>    |                                                                                                     |          |
| <b>Comments:</b>           | Called party BCD number (CC information element)<br>GSM 04.08, 10.5.4.7. Used in SMS-SUBMIT (ms->n) |          |
| Element Name               | Element Value                                                                                       | Comments |
| iei                        | OMIT                                                                                                |          |
| iel                        | '00'O                                                                                               |          |
| tonnpi                     | OMIT                                                                                                |          |
| digits                     | OMIT                                                                                                |          |
| <b>Detailed Comments:</b>  |                                                                                                     |          |

| Structured Type Constraint |                                                                                                      |          |
|----------------------------|------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | RpOrigAddr_03(rpoa: BCDN)                                                                            |          |
| <b>Structured Type:</b>    | CDPN                                                                                                 |          |
| <b>Derivation Path:</b>    |                                                                                                      |          |
| <b>Comments:</b>           | Called party BCD number (CC information element)<br>GSM 04.08, 10.5.4.7. Used in SMS-DELIVER (n->ms) |          |
| Element Name               | Element Value                                                                                        | Comments |
| iei                        | OMIT                                                                                                 |          |
| iel                        | OC_IntToOct((OC_LengthOfBCDN(rpoa)<br>+ 1), 1)                                                       |          |
| tonnpi                     | TonNpi_03                                                                                            |          |
| digits                     | rpoa                                                                                                 |          |
| <b>Detailed Comments:</b>  |                                                                                                      |          |

| Structured Type Constraint |                                                                                                      |          |
|----------------------------|------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | RpDestAddr_01                                                                                        |          |
| <b>Structured Type:</b>    | CDPN                                                                                                 |          |
| <b>Derivation Path:</b>    |                                                                                                      |          |
| <b>Comments:</b>           | Called party BCD number (CC information element)<br>GSM 04.08, 10.5.4.7. Used in SMS-DELIVER (n->ms) |          |
| Element Name               | Element Value                                                                                        | Comments |
| iei                        | OMIT                                                                                                 |          |
| iel                        | '00'O                                                                                                |          |
| tonnpi                     | OMIT                                                                                                 |          |
| digits                     | OMIT                                                                                                 |          |
| <b>Detailed Comments:</b>  |                                                                                                      |          |

| Structured Type Constraint |                                                                                                     |          |
|----------------------------|-----------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | RpDestAddr_02                                                                                       |          |
| <b>Structured Type:</b>    | CDPN                                                                                                |          |
| <b>Derivation Path:</b>    |                                                                                                     |          |
| <b>Comments:</b>           | Called party BCD number (CC information element)<br>GSM 04.08, 10.5.4.7. Used in SMS-SUBMIT (ms->n) |          |
| Element Name               | Element Value                                                                                       | Comments |
| iei                        | OMIT                                                                                                |          |
| iel                        | ('02'O, '03'O, '04'O, '05'O, '06'O, '07'O,<br>'08'O, '09'O, '0A'O, '0B'O)                           |          |
| tonnpi                     | *                                                                                                   |          |
| digits                     | *                                                                                                   |          |
| <b>Detailed Comments:</b>  |                                                                                                     |          |

| Structured Type Constraint |                                                                         |          |
|----------------------------|-------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | RpDestAddr_03(rpda: BCDN)                                               |          |
| <b>Structured Type:</b>    | CDPN                                                                    |          |
| <b>Derivation Path:</b>    |                                                                         |          |
| <b>Comments:</b>           | Called party BCD number (CC information element)<br>GSM 04.08, 10.5.4.7 |          |
| Element Name               | Element Value                                                           | Comments |
| iei                        | OMIT                                                                    |          |
| iel                        | ?                                                                       |          |
| tonnpi                     | ?                                                                       |          |
| digits                     | rpda                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                         |          |

| Structured Type Constraint |                                        |          |
|----------------------------|----------------------------------------|----------|
| <b>Constraint Name:</b>    | SMSCBdata(b1, b2, b3, b4: OCTETSTRING) |          |
| <b>Structured Type:</b>    | SMSCBpack                              |          |
| <b>Derivation Path:</b>    |                                        |          |
| <b>Comments:</b>           | SMS cell broadcasting packing data     |          |
| Element Name               | Element Value                          | Comments |
| block1                     | b1                                     |          |
| block2                     | b2                                     |          |
| block3                     | b3                                     |          |
| block4                     | b4                                     |          |
| <b>Detailed Comments:</b>  |                                        |          |

| Structured Type Constraint |                                                               |          |
|----------------------------|---------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Tppid_01                                                      |          |
| <b>Structured Type:</b>    | TPPID                                                         |          |
| <b>Derivation Path:</b>    |                                                               |          |
| <b>Comments:</b>           | TP protocol identifier, GSM 03.40, 9.2.3.9<br>default value 0 |          |
| Element Name               | Element Value                                                 | Comments |
| type                       | '00'B                                                         |          |
| value                      | '000000'B                                                     |          |
| <b>Detailed Comments:</b>  |                                                               |          |

| Structured Type Constraint |                                                               |          |
|----------------------------|---------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Tppid_02(smtype: INTEGER)                                     |          |
| <b>Structured Type:</b>    | TPPID                                                         |          |
| <b>Derivation Path:</b>    |                                                               |          |
| <b>Comments:</b>           | TP protocol identifier, GSM 03.40, 9.2.3.9<br>default value 0 |          |
| Element Name               | Element Value                                                 | Comments |
| type                       | '01'B                                                         |          |
| value                      | INT_TO_BIT(smtype, 6)                                         |          |
| <b>Detailed Comments:</b>  |                                                               |          |



| <b>Structured Type Constraint</b> |                                                               |          |
|-----------------------------------|---------------------------------------------------------------|----------|
| <b>Constraint Name:</b>           | Tpdcs_01                                                      |          |
| <b>Structured Type:</b>           | TPDCS                                                         |          |
| <b>Derivation Path:</b>           |                                                               |          |
| <b>Comments:</b>                  | SMS data coding scheme, GSM 03.38, 4, 5<br>default value is 0 |          |
| Element Name                      | Element Value                                                 | Comments |
| cg                                | '0000'B                                                       |          |
| code                              | '0000'B                                                       |          |
| <b>Detailed Comments:</b>         |                                                               |          |

| <b>Structured Type Constraint</b> |                                                    |          |
|-----------------------------------|----------------------------------------------------|----------|
| <b>Constraint Name:</b>           | Tpdcs_02                                           |          |
| <b>Structured Type:</b>           | TPDCS                                              |          |
| <b>Derivation Path:</b>           |                                                    |          |
| <b>Comments:</b>                  | SMS data coding scheme, GSM 03.38, 4, 5<br>class 2 |          |
| Element Name                      | Element Value                                      | Comments |
| cg                                | '1111'B                                            |          |
| code                              | '0010'B                                            |          |
| <b>Detailed Comments:</b>         |                                                    |          |

| <b>Structured Type Constraint</b> |                                                    |          |
|-----------------------------------|----------------------------------------------------|----------|
| <b>Constraint Name:</b>           | Tpdcs_03                                           |          |
| <b>Structured Type:</b>           | TPDCS                                              |          |
| <b>Derivation Path:</b>           |                                                    |          |
| <b>Comments:</b>                  | SMS data coding scheme, GSM 03.38, 4, 5<br>class 1 |          |
| Element Name                      | Element Value                                      | Comments |
| cg                                | '1111'B                                            |          |
| code                              | '0001'B                                            |          |
| <b>Detailed Comments:</b>         |                                                    |          |

| <b>Structured Type Constraint</b> |                                                    |          |
|-----------------------------------|----------------------------------------------------|----------|
| <b>Constraint Name:</b>           | Tpdcs_04                                           |          |
| <b>Structured Type:</b>           | TPDCS                                              |          |
| <b>Derivation Path:</b>           |                                                    |          |
| <b>Comments:</b>                  | SMS data coding scheme, GSM 03.38, 4, 5<br>class 0 |          |
| Element Name                      | Element Value                                      | Comments |
| cg                                | '1111'B                                            |          |
| code                              | '0000'B                                            |          |
| <b>Detailed Comments:</b>         |                                                    |          |

| <b>Structured Type Constraint</b> |                                                                      |          |
|-----------------------------------|----------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>           | Tpdcs_05                                                             |          |
| <b>Structured Type:</b>           | TPDCS                                                                |          |
| <b>Derivation Path:</b>           |                                                                      |          |
| <b>Comments:</b>                  | SMS data coding scheme, GSM 03.38, 4, 5<br>default alphabet, English |          |
| Element Name                      | Element Value                                                        | Comments |
| cg                                | '0000'B                                                              |          |
| code                              | '0001'B                                                              |          |
| <b>Detailed Comments:</b>         |                                                                      |          |

| Structured Type Constraint |                                   |          |
|----------------------------|-----------------------------------|----------|
| <b>Constraint Name:</b>    | TpStatus_01                       |          |
| <b>Structured Type:</b>    | TPST                              |          |
| <b>Derivation Path:</b>    |                                   |          |
| <b>Comments:</b>           | Short message received by the SME |          |
| Element Name               | Element Value                     | Comments |
| sprb1                      | '0'B                              |          |
| value                      | '0000000'B                        |          |
| <b>Detailed Comments:</b>  |                                   |          |

| Structured Type Constraint |                                                       |          |
|----------------------------|-------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | TpCommand_01(tpmr: MR)                                |          |
| <b>Structured Type:</b>    | SMCMD                                                 |          |
| <b>Derivation Path:</b>    |                                                       |          |
| <b>Comments:</b>           | Enquiry related to previously submitted short message |          |
| Element Name               | Element Value                                         | Comments |
| sprb1                      | '00'B                                                 |          |
| srr                        | '0'B                                                  |          |
| sprb2                      | '000'B                                                |          |
| mti                        | '10'B                                                 |          |
| mr                         | OC_IntToOct(OC_OctToInt(tpmr) + 1, 1)                 |          |
| pid                        | Tppid_01                                              |          |
| ct                         | '00'O                                                 |          |
| mn                         | ?                                                     |          |
| da                         | ?                                                     |          |
| cdl                        | ?                                                     |          |
| cd                         | ?                                                     |          |
| <b>Detailed Comments:</b>  |                                                       |          |

| Structured Type Constraint |                                           |          |
|----------------------------|-------------------------------------------|----------|
| <b>Constraint Name:</b>    | TpCommand_02(tpmr: MR)                    |          |
| <b>Structured Type:</b>    | SMCMD                                     |          |
| <b>Derivation Path:</b>    |                                           |          |
| <b>Comments:</b>           | Delete previously submitted short message |          |
| Element Name               | Element Value                             | Comments |
| sprb1                      | '00'B                                     |          |
| srr                        | '0'B                                      |          |
| sprb2                      | '000'B                                    |          |
| mti                        | '10'B                                     |          |
| mr                         | OC_IntToOct(OC_OctToInt(tpmr) + 1, 1)     |          |
| pid                        | Tppid_01                                  |          |
| ct                         | '02'O                                     |          |
| mn                         | ?                                         |          |
| da                         | ?                                         |          |
| cdl                        | ?                                         |          |
| cd                         | ?                                         |          |
| <b>Detailed Comments:</b>  |                                           |          |

| Structured Type Constraint |                 |          |
|----------------------------|-----------------|----------|
| <b>Constraint Name:</b>    | UuInfo_omit     |          |
| <b>Structured Type:</b>    | UU              |          |
| <b>Derivation Path:</b>    |                 |          |
| <b>Comments:</b>           | Omitted UUInfo. |          |
| Element Name               | Element Value   | Comments |
| iei                        | OMIT            |          |
| iel                        | OMIT            |          |
| uupd                       | OMIT            |          |
| uui                        | OMIT            |          |
| <b>Detailed Comments:</b>  |                 |          |

| Structured Type Constraint |                                              |          |
|----------------------------|----------------------------------------------|----------|
| <b>Constraint Name:</b>    | UuInfo                                       |          |
| <b>Structured Type:</b>    | UU                                           |          |
| <b>Derivation Path:</b>    |                                              |          |
| <b>Comments:</b>           | Delete previously submitted short message    |          |
| Element Name               | Element Value                                | Comments |
| iei                        | '01111110'B                                  |          |
| iel                        | OC_IntToOct(1+<br>LENGTH_OF(TSPX_UuInfo), 1) |          |
| uupd                       | TSPX_Uupd                                    |          |
| uui                        | TSPX_UuInfo                                  |          |
| <b>Detailed Comments:</b>  |                                              |          |

| Structured Type Constraint |                      |          |
|----------------------------|----------------------|----------|
| <b>Constraint Name:</b>    | V22bisOrV26ter       |          |
| <b>Structured Type:</b>    | MODEMTYPE            |          |
| <b>Derivation Path:</b>    |                      |          |
| <b>Comments:</b>           |                      |          |
| Element Name               | Element Value        | Comments |
| V22bisOrV26ter             | ('00011'B, '00101'B) |          |
| <b>Detailed Comments:</b>  |                      |          |

### ASN1 type constraints

| ASN.1 Type Constraint Declaration |                             |            |
|-----------------------------------|-----------------------------|------------|
| <b>Constraint Name:</b>           | ActivateSS_01               |            |
| <b>ASN.1 Type:</b>                | Component                   |            |
| <b>Derivation Path:</b>           |                             |            |
| <b>Comments:</b>                  | CF all synchronous services |            |
| Constraint Value                  |                             |            |
| activateSSComponents              | activateSS_InvokeComp       | {          |
| ?,                                |                             | invokeID   |
| 12,                               |                             | localValue |
| {                                 |                             | ss_ForBS   |
| ss_Code                           | '20'H,                      |            |
| basicService                      | bearerService               | '68'H      |
| }                                 |                             | }          |
| <b>Detailed Comments:</b>         |                             |            |

| <b>ASN.1 Type Constraint Declaration</b> |                        |
|------------------------------------------|------------------------|
| <b>Constraint Name:</b>                  | ActivateSS_02          |
| <b>ASN.1 Type:</b>                       | Component              |
| <b>Derivation Path:</b>                  |                        |
| <b>Comments:</b>                         | CFU all basic services |
| <b>Constraint Value</b>                  |                        |
| activateSSComponents                     | activateSS_InvokeComp  |
| ?,                                       | {                      |
| 12,                                      | invokeID               |
|                                          | localValue             |
|                                          | ss_ForBS               |
| {                                        |                        |
| ss_Code                                  | '21'H                  |
| }                                        | }                      |
| <b>Detailed Comments:</b>                |                        |

| <b>ASN.1 Type Constraint Declaration</b> |                               |
|------------------------------------------|-------------------------------|
| <b>Constraint Name:</b>                  | ActivateSS_03                 |
| <b>ASN.1 Type:</b>                       | Component                     |
| <b>Derivation Path:</b>                  |                               |
| <b>Comments:</b>                         | BAOC all synchronous services |
| <b>Constraint Value</b>                  |                               |
| activateSSComponents                     | activateSS_InvokeComp         |
| ?,                                       | {                             |
| 12,                                      | invokeID                      |
|                                          | localValue                    |
|                                          | ss_ForBS                      |
| {                                        |                               |
| ss_Code                                  | '92'H,                        |
| basicService                             | bearerService                 |
|                                          | '68'H                         |
| }                                        | }                             |
| <b>Detailed Comments:</b>                |                               |

| <b>ASN.1 Type Constraint Declaration</b> |                       |
|------------------------------------------|-----------------------|
| <b>Constraint Name:</b>                  | ActivateSS_04         |
| <b>ASN.1 Type:</b>                       | Component             |
| <b>Derivation Path:</b>                  |                       |
| <b>Comments:</b>                         | BIC-Roam              |
| <b>Constraint Value</b>                  |                       |
| activateSSComponents                     | activateSS_InvokeComp |
| ?,                                       | {                     |
| 12,                                      | invokeID              |
|                                          | localValue            |
|                                          | ss_ForBS              |
| {                                        |                       |
| ss_Code                                  | '9B'H -- BIC-Roam     |
| }                                        | }                     |
| <b>Detailed Comments:</b>                |                       |

| <b>ASN.1 Type Constraint Declaration</b>       |                                                     |
|------------------------------------------------|-----------------------------------------------------|
| <b>Constraint Name:</b>                        | ActivateSS_05                                       |
| <b>ASN.1 Type:</b>                             | Component                                           |
| <b>Derivation Path:</b>                        |                                                     |
| <b>Comments:</b>                               | BOIC                                                |
| <b>Constraint Value</b>                        |                                                     |
| activateSSComponents                           | activateSS_InvokeComp                               |
| <pre> ?, 12, { ss_Code          '93'H } </pre> | <pre> {   invokeID   localValue   ss_ForBS } </pre> |
| <b>Detailed Comments:</b>                      |                                                     |

| <b>ASN.1 Type Constraint Declaration</b>       |                                                     |
|------------------------------------------------|-----------------------------------------------------|
| <b>Constraint Name:</b>                        | ActivateSS_06                                       |
| <b>ASN.1 Type:</b>                             | Component                                           |
| <b>Derivation Path:</b>                        |                                                     |
| <b>Comments:</b>                               | BAIC                                                |
| <b>Constraint Value</b>                        |                                                     |
| activateSSComponents                           | activateSS_InvokeComp                               |
| <pre> ?, 12, { ss_Code          '9A'H } </pre> | <pre> {   invokeID   localValue   ss_ForBS } </pre> |
| <b>Detailed Comments:</b>                      |                                                     |

| <b>ASN.1 Type Constraint Declaration</b> |                                          |
|------------------------------------------|------------------------------------------|
| <b>Constraint Name:</b>                  | BldMptySS_01                             |
| <b>ASN.1 Type:</b>                       | Component                                |
| <b>Derivation Path:</b>                  |                                          |
| <b>Comments:</b>                         | build multiparty request                 |
| <b>Constraint Value</b>                  |                                          |
| buildMPTYComponents                      | buildMPTY_InvokeComp                     |
| <pre> ?, 124 </pre>                      | <pre> {   invokeID   localValue } </pre> |
| <b>Detailed Comments:</b>                |                                          |

| <b>ASN.1 Type Constraint Declaration</b>                                   |                                                     |
|----------------------------------------------------------------------------|-----------------------------------------------------|
| <b>Constraint Name:</b>                                                    | DeactivateSS_01                                     |
| <b>ASN.1 Type:</b>                                                         | Component                                           |
| <b>Derivation Path:</b>                                                    |                                                     |
| <b>Comments:</b>                                                           | CFC for speech                                      |
| <b>Constraint Value</b>                                                    |                                                     |
| deactivateSSComponents                                                     | deactivateSS_InvokeComp                             |
| <pre> ?, 13, { ss_Code      '28'H, basicService teleservice '10'H } </pre> | <pre> {   invokeID   localValue   ss_ForBS } </pre> |
| <b>Detailed Comments:</b>                                                  |                                                     |

| <b>ASN.1 Type Constraint Declaration</b>                                   |                                                     |
|----------------------------------------------------------------------------|-----------------------------------------------------|
| <b>Constraint Name:</b>                                                    | DeactivateSS_02                                     |
| <b>ASN.1 Type:</b>                                                         | Component                                           |
| <b>Derivation Path:</b>                                                    |                                                     |
| <b>Comments:</b>                                                           | CFNRc for all facsimile                             |
| <b>Constraint Value</b>                                                    |                                                     |
| deactivateSSComponents                                                     | deactivateSS_InvokeComp                             |
| <pre> ?, 13, { ss_Code      '2B'H, basicService teleservice '60'H } </pre> | <pre> {   invokeID   localValue   ss_ForBS } </pre> |
| <b>Detailed Comments:</b>                                                  |                                                     |

| <b>ASN.1 Type Constraint Declaration</b>                                       |                                                     |
|--------------------------------------------------------------------------------|-----------------------------------------------------|
| <b>Constraint Name:</b>                                                        | DeactivateSS_03                                     |
| <b>ASN.1 Type:</b>                                                             | Component                                           |
| <b>Derivation Path:</b>                                                        |                                                     |
| <b>Comments:</b>                                                               | deactivation for barring                            |
| <b>Constraint Value</b>                                                        |                                                     |
| deactivateSSComponents                                                         | deactivateSS_InvokeComp                             |
| <pre> ?, 13, {   ss_Code      '90'H,   basicService teleservice '10'H } </pre> | <pre> {   invokeID   localValue   ss_ForBS } </pre> |
| <b>Detailed Comments:</b>                                                      |                                                     |

| <b>ASN.1 Type Constraint Declaration</b>                                       |                                                     |
|--------------------------------------------------------------------------------|-----------------------------------------------------|
| <b>Constraint Name:</b>                                                        | DeactivateSS_04                                     |
| <b>ASN.1 Type:</b>                                                             | Component                                           |
| <b>Derivation Path:</b>                                                        |                                                     |
| <b>Comments:</b>                                                               | deactivation for barring of outgoing calls          |
| <b>Constraint Value</b>                                                        |                                                     |
| deactivateSSComponents                                                         | deactivateSS_InvokeComp                             |
| <pre> ?, 13, {   ss_Code      '91'H,   basicService teleservice '60'H } </pre> | <pre> {   invokeID   localValue   ss_ForBS } </pre> |
| <b>Detailed Comments:</b>                                                      |                                                     |

| <b>ASN.1 Type Constraint Declaration</b>     |                                                     |
|----------------------------------------------|-----------------------------------------------------|
| <b>Constraint Name:</b>                      | DeactivateSS_05                                     |
| <b>ASN.1 Type:</b>                           | Component                                           |
| <b>Derivation Path:</b>                      |                                                     |
| <b>Comments:</b>                             | deactivation for barring of incoming calls          |
| <b>Constraint Value</b>                      |                                                     |
| deactivateSSComponents                       | deactivateSS_InvokeComp                             |
| <pre> ?, 13, {   ss_Code      '99'H } </pre> | <pre> {   invokeID   localValue   ss_ForBS } </pre> |
| <b>Detailed Comments:</b>                    |                                                     |

| <b>ASN.1 Type Constraint Declaration</b>   |                                                     |
|--------------------------------------------|-----------------------------------------------------|
| <b>Constraint Name:</b>                    | DeactivateSS_06                                     |
| <b>ASN.1 Type:</b>                         | Component                                           |
| <b>Derivation Path:</b>                    |                                                     |
| <b>Comments:</b>                           | deactivation for BOICExHC                           |
| <b>Constraint Value</b>                    |                                                     |
| deactivateSSComponents                     | deactivateSS_InvokeComp                             |
| <pre> ?, 13, { ss_Code      '94'H } </pre> | <pre> {   invokeID   localValue   ss_ForBS } </pre> |
| <b>Detailed Comments:</b>                  |                                                     |

| <b>ASN.1 Type Constraint Declaration</b>                                   |                                                     |
|----------------------------------------------------------------------------|-----------------------------------------------------|
| <b>Constraint Name:</b>                                                    | EraseSS_01                                          |
| <b>ASN.1 Type:</b>                                                         | Component                                           |
| <b>Derivation Path:</b>                                                    |                                                     |
| <b>Comments:</b>                                                           | CFC for all facsimile                               |
| <b>Constraint Value</b>                                                    |                                                     |
| eraseSSComponents                                                          | eraseSS_InvokeComp                                  |
| <pre> ?, 11, { ss_Code      '28'H, basicService teleservice '60'H } </pre> | <pre> {   invokeID   localValue   ss_ForBS } </pre> |
| <b>Detailed Comments:</b>                                                  |                                                     |

| <b>ASN.1 Type Constraint Declaration</b>   |                                                     |
|--------------------------------------------|-----------------------------------------------------|
| <b>Constraint Name:</b>                    | EraseSS_02                                          |
| <b>ASN.1 Type:</b>                         | Component                                           |
| <b>Derivation Path:</b>                    |                                                     |
| <b>Comments:</b>                           | CFNRc for all basic services                        |
| <b>Constraint Value</b>                    |                                                     |
| eraseSSComponents                          | eraseSS_InvokeComp                                  |
| <pre> ?, 11, { ss_Code      '2B'H } </pre> | <pre> {   invokeID   localValue   ss_ForBS } </pre> |
| <b>Detailed Comments:</b>                  |                                                     |



| <b>ASN.1 Type Constraint Declaration</b> |                    |
|------------------------------------------|--------------------|
| <b>Constraint Name:</b>                  | EraseSS_03         |
| <b>ASN.1 Type:</b>                       | Component          |
| <b>Derivation Path:</b>                  |                    |
| <b>Comments:</b>                         | CFU for speech     |
| <b>Constraint Value</b>                  |                    |
| eraseSSComponents                        | eraseSS_InvokeComp |
| ?,                                       | {                  |
| 11,                                      | invokeID           |
|                                          | localValue         |
|                                          | ss_ForBS           |
| {                                        |                    |
| ss_Code       '21'H,                     |                    |
| basicService   teleservice   '10'H       |                    |
| }                                        | }                  |
| <b>Detailed Comments:</b>                |                    |

| <b>ASN.1 Type Constraint Declaration</b> |                         |
|------------------------------------------|-------------------------|
| <b>Constraint Name:</b>                  | EraseSS_04              |
| <b>ASN.1 Type:</b>                       | Component               |
| <b>Derivation Path:</b>                  |                         |
| <b>Comments:</b>                         | CFNRy for all facsimile |
| <b>Constraint Value</b>                  |                         |
| eraseSSComponents                        | eraseSS_InvokeComp      |
| ?,                                       | {                       |
| 11,                                      | invokeID                |
|                                          | localValue              |
|                                          | ss_ForBS                |
| {                                        |                         |
| ss_Code       '2A'H,                     |                         |
| basicService   teleservice   '60'H       |                         |
| }                                        | }                       |
| <b>Detailed Comments:</b>                |                         |

| ASN.1 Type Constraint Declaration                                                                                                                                                                                                                     |                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| <b>Constraint Name:</b>                                                                                                                                                                                                                               | FwdCharg_01                              |
| <b>ASN.1 Type:</b>                                                                                                                                                                                                                                    | Components                               |
| <b>Derivation Path:</b>                                                                                                                                                                                                                               |                                          |
| <b>Comments:</b>                                                                                                                                                                                                                                      |                                          |
| Constraint Value                                                                                                                                                                                                                                      |                                          |
| <pre> forwardChargeAdviceComponents      forwardChargeAdvice_InvokeComp { 1, 125, forwardChargeAdviceArg { ss_Code          '72'H , chargingInformation { e1      6, e2      14, e3      1, e4      25, e5      0, e6      0, e7      60 } } } </pre> | <pre> {   invokeID   localValue } </pre> |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                             |                                          |

| ASN.1 Type Constraint Declaration                                                           |                                      |
|---------------------------------------------------------------------------------------------|--------------------------------------|
| <b>Constraint Name:</b>                                                                     | FwdChAdvRslt_01                      |
| <b>ASN.1 Type:</b>                                                                          | Component                            |
| <b>Derivation Path:</b>                                                                     |                                      |
| <b>Comments:</b>                                                                            |                                      |
| Constraint Value                                                                            |                                      |
| <pre> forwardChargeAdviceComponents      forwardChargeAdvice_ReturnResultComp { 0, * </pre> | <pre> {   invokeID   result } </pre> |
| <b>Detailed Comments:</b>                                                                   |                                      |

| <b>ASN.1 Type Constraint Declaration</b> |                              |
|------------------------------------------|------------------------------|
| <b>Constraint Name:</b>                  | GetPasswdRslt_01             |
| <b>ASN.1 Type:</b>                       | Component                    |
| <b>Derivation Path:</b>                  |                              |
| <b>Comments:</b>                         |                              |
| <b>Constraint Value</b>                  |                              |
| getPasswordComponents                    | getPassword_ReturnResultComp |
| 0,                                       | {<br>invokeID<br>result {    |
| localValue        18,                    | }                            |
| currentPassword   "1234"                 | }<br>}                       |
| <b>Detailed Comments:</b>                |                              |

| <b>ASN.1 Type Constraint Declaration</b> |                              |
|------------------------------------------|------------------------------|
| <b>Constraint Name:</b>                  | GetPasswdRslt_02             |
| <b>ASN.1 Type:</b>                       | Component                    |
| <b>Derivation Path:</b>                  |                              |
| <b>Comments:</b>                         |                              |
| <b>Constraint Value</b>                  |                              |
| getPasswordComponents                    | getPassword_ReturnResultComp |
| 0,                                       | {<br>invokeID<br>result {    |
| localValue        18,                    | }                            |
| currentPassword   "9876"                 | }<br>}                       |
| <b>Detailed Comments:</b>                |                              |

| <b>ASN.1 Type Constraint Declaration</b> |                              |
|------------------------------------------|------------------------------|
| <b>Constraint Name:</b>                  | GetPasswdRslt_03             |
| <b>ASN.1 Type:</b>                       | Component                    |
| <b>Derivation Path:</b>                  |                              |
| <b>Comments:</b>                         |                              |
| <b>Constraint Value</b>                  |                              |
| getPasswordComponents                    | getPassword_ReturnResultComp |
| 0,                                       | {<br>invokeID<br>result {    |
| localValue        18,                    | }                            |
| currentPassword   "9877"                 | }<br>}                       |
| <b>Detailed Comments:</b>                |                              |

| <b>ASN.1 Type Constraint Declaration</b>    |                                              |
|---------------------------------------------|----------------------------------------------|
| <b>Constraint Name:</b>                     | InterrogateSS_01                             |
| <b>ASN.1 Type:</b>                          | Component                                    |
| <b>Derivation Path:</b>                     |                                              |
| <b>Comments:</b>                            | CFB for all basic services                   |
| <b>Constraint Value</b>                     |                                              |
| interrogateSSComponents                     | interrogateSS_InvokeComp                     |
| ?,<br>14,<br>{<br>ss_Code        '29'H<br>} | {<br>invokeID<br>localValue<br>ss_ForBS<br>} |
| <b>Detailed Comments:</b>                   |                                              |

| <b>ASN.1 Type Constraint Declaration</b>                                                     |                                              |
|----------------------------------------------------------------------------------------------|----------------------------------------------|
| <b>Constraint Name:</b>                                                                      | InterrogateSS_02                             |
| <b>ASN.1 Type:</b>                                                                           | Component                                    |
| <b>Derivation Path:</b>                                                                      |                                              |
| <b>Comments:</b>                                                                             | CFNRy for Speech                             |
| <b>Constraint Value</b>                                                                      |                                              |
| interrogateSSComponents                                                                      | interrogateSS_InvokeComp                     |
| ?,<br>14,<br>{<br>ss_Code        '2A'H, --CNFRy<br>basicService    teleservice    '10'H<br>} | {<br>invokeID<br>localValue<br>ss_ForBS<br>} |
| <b>Detailed Comments:</b>                                                                    |                                              |

| <b>ASN.1 Type Constraint Declaration</b>    |                                              |
|---------------------------------------------|----------------------------------------------|
| <b>Constraint Name:</b>                     | InterrogateSS_03                             |
| <b>ASN.1 Type:</b>                          | Component                                    |
| <b>Derivation Path:</b>                     |                                              |
| <b>Comments:</b>                            | CFNRc for all basic services                 |
| <b>Constraint Value</b>                     |                                              |
| interrogateSSComponents                     | interrogateSS_InvokeComp                     |
| ?,<br>14,<br>{<br>ss_Code        '2B'H<br>} | {<br>invokeID<br>localValue<br>ss_ForBS<br>} |
| <b>Detailed Comments:</b>                   |                                              |

| <b>ASN.1 Type Constraint Declaration</b>                                                                                             |                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <b>Constraint Name:</b>                                                                                                              | InterrogateSS_04                                  |
| <b>ASN.1 Type:</b>                                                                                                                   | Component                                         |
| <b>Derivation Path:</b>                                                                                                              |                                                   |
| <b>Comments:</b>                                                                                                                     | CFB for all facsimile                             |
| <b>Constraint Value</b>                                                                                                              |                                                   |
| <pre>interrogateSSComponents      interrogateSS_InvokeComp ? , 14 , {   ss_Code      '29'H,   basicService teleservice '60'H }</pre> | <pre>{   invokeID   localValue   ss_ForBS }</pre> |
| <b>Detailed Comments:</b>                                                                                                            |                                                   |

| <b>ASN.1 Type Constraint Declaration</b>                                                           |                                                   |
|----------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <b>Constraint Name:</b>                                                                            | InterrogateSS_05                                  |
| <b>ASN.1 Type:</b>                                                                                 | Component                                         |
| <b>Derivation Path:</b>                                                                            |                                                   |
| <b>Comments:</b>                                                                                   | BICRoam                                           |
| <b>Constraint Value</b>                                                                            |                                                   |
| <pre>interrogateSSComponents      interrogateSS_InvokeComp ? , 14 , {   ss_Code      '9B'H }</pre> | <pre>{   invokeID   localValue   ss_ForBS }</pre> |
| <b>Detailed Comments:</b>                                                                          |                                                   |

| <b>ASN.1 Type Constraint Declaration</b>                                                           |                                                   |
|----------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <b>Constraint Name:</b>                                                                            | InterrogateSS_06                                  |
| <b>ASN.1 Type:</b>                                                                                 | Component                                         |
| <b>Derivation Path:</b>                                                                            |                                                   |
| <b>Comments:</b>                                                                                   | BOIC                                              |
| <b>Constraint Value</b>                                                                            |                                                   |
| <pre>interrogateSSComponents      interrogateSS_InvokeComp ? , 14 , {   ss_Code      '93'H }</pre> | <pre>{   invokeID   localValue   ss_ForBS }</pre> |
| <b>Detailed Comments:</b>                                                                          |                                                   |

| <b>ASN.1 Type Constraint Declaration</b> |                          |
|------------------------------------------|--------------------------|
| <b>Constraint Name:</b>                  | InterrogateSS_07         |
| <b>ASN.1 Type:</b>                       | Component                |
| <b>Derivation Path:</b>                  |                          |
| <b>Comments:</b>                         | BAIC                     |
| <b>Constraint Value</b>                  |                          |
| interrogateSSComponents                  | interrogateSS_InvokeComp |
| ?,                                       | {                        |
| 14,                                      | invokeID                 |
|                                          | localValue               |
|                                          | ss_ForBS                 |
| {                                        |                          |
| ss_Code                                  | '9A'H                    |
| }                                        | }                        |
| <b>Detailed Comments:</b>                |                          |

| <b>ASN.1 Type Constraint Declaration</b> |                          |
|------------------------------------------|--------------------------|
| <b>Constraint Name:</b>                  | InterrogateSS_08         |
| <b>ASN.1 Type:</b>                       | Component                |
| <b>Derivation Path:</b>                  |                          |
| <b>Comments:</b>                         | BOICExHC                 |
| <b>Constraint Value</b>                  |                          |
| interrogateSSComponents                  | interrogateSS_InvokeComp |
| ?,                                       | {                        |
| 14,                                      | invokeID                 |
|                                          | localValue               |
|                                          | ss_ForBS                 |
| {                                        |                          |
| ss_Code                                  | '94'H                    |
| }                                        | }                        |
| <b>Detailed Comments:</b>                |                          |

| <b>ASN.1 Type Constraint Declaration</b> |                                        |
|------------------------------------------|----------------------------------------|
| <b>Constraint Name:</b>                  | NotificationSS_07(Invkid: OCTETSTRING) |
| <b>ASN.1 Type:</b>                       | Component                              |
| <b>Derivation Path:</b>                  |                                        |
| <b>Comments:</b>                         |                                        |
| <b>Constraint Value</b>                  |                                        |
| unstructuredSSNotifyComponents           | unstructuredSSNotify_ReturnResultComp  |
| OC_OctToInvokeIDType(Invkid),            | {                                      |
|                                          | invokeID                               |
|                                          | result                                 |
|                                          | {                                      |
| localValue                               | 61                                     |
|                                          | }                                      |
|                                          | }                                      |
| <b>Detailed Comments:</b>                |                                        |

| <b>ASN.1 Type Constraint Declaration</b>                                                                  |                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Constraint Name:</b>                                                                                   | NotificationSS_09(Invkid: OCTETSTRING)                                                                                                                                                                                                                                          |
| <b>ASN.1 Type:</b>                                                                                        | Component                                                                                                                                                                                                                                                                       |
| <b>Derivation Path:</b>                                                                                   |                                                                                                                                                                                                                                                                                 |
| <b>Comments:</b>                                                                                          |                                                                                                                                                                                                                                                                                 |
| <b>Constraint Value</b>                                                                                   |                                                                                                                                                                                                                                                                                 |
| <pre> unstructuredSSNotifyComponents OC_OctToInvokeIDType( Invkid) , ussd_Busy                     </pre> | <pre> unstructuredSSNotify_ReturnErrorComp                                 errorCodes                                 {                                     invokeID                                     errorCode                                 }                     </pre> |
| <b>Detailed Comments:</b>                                                                                 |                                                                                                                                                                                                                                                                                 |

| <b>ASN.1 Type Constraint Declaration</b>                                                                                                                                                                                    |                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Constraint Name:</b>                                                                                                                                                                                                     | RegisterSS_01                                                                                                                                                                                                                                                             |
| <b>ASN.1 Type:</b>                                                                                                                                                                                                          | Component                                                                                                                                                                                                                                                                 |
| <b>Derivation Path:</b>                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                           |
| <b>Comments:</b>                                                                                                                                                                                                            | CFNRy Speech                                                                                                                                                                                                                                                              |
| <b>Constraint Value</b>                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                           |
| <pre> registerSSComponents ?, 10, { ss_Code          '2A'H, basicService     teleservice  '10'H, forwardedToNumber '91342143'H,  -- International Number + Country code noReplyConditionTime 5 }                     </pre> | <pre> registerSS_InvokeComp                                 {                                     invokeID                                     localValue                                     registerSS_Arg                                 }                     </pre> |
| <b>Detailed Comments:</b>                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                           |

| <b>ASN.1 Type Constraint Declaration</b>                                                                                                                                                            |                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Constraint Name:</b>                                                                                                                                                                             | RegisterSS_02                                                                                                                                                                                                                                                             |
| <b>ASN.1 Type:</b>                                                                                                                                                                                  | Component                                                                                                                                                                                                                                                                 |
| <b>Derivation Path:</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                                           |
| <b>Comments:</b>                                                                                                                                                                                    | CFU                                                                                                                                                                                                                                                                       |
| <b>Constraint Value</b>                                                                                                                                                                             |                                                                                                                                                                                                                                                                           |
| <pre> registerSSComponents ?, 10, { ss_Code          '21'H, basicService     teleservice  '60'H, forwardedToNumber '91342143'H  -- International Number + Country code }                     </pre> | <pre> registerSS_InvokeComp                                 {                                     invokeID                                     localValue                                     registerSS_Arg                                 }                     </pre> |
| <b>Detailed Comments:</b>                                                                                                                                                                           |                                                                                                                                                                                                                                                                           |

| <b>ASN.1 Type Constraint Declaration</b> |                                                    |
|------------------------------------------|----------------------------------------------------|
| <b>Constraint Name:</b>                  | RegisterSS_03                                      |
| <b>ASN.1 Type:</b>                       | Component                                          |
| <b>Derivation Path:</b>                  |                                                    |
| <b>Comments:</b>                         | CFB                                                |
| <b>Constraint Value</b>                  |                                                    |
| registerSSComponents                     | registerSS_InvokeComp                              |
|                                          | {                                                  |
| ?,                                       | invokeID                                           |
|                                          | localValue                                         |
| 10,                                      | registerSS_Arg                                     |
| {                                        |                                                    |
| ss_Code                                  | '29'H,                                             |
| basicService                             | bearerService '60'H,                               |
| forwardedToNumber                        | '91342143'H -- International Number + Country code |
| }                                        | }                                                  |
| <b>Detailed Comments:</b>                |                                                    |

| <b>ASN.1 Type Constraint Declaration</b> |                                                    |
|------------------------------------------|----------------------------------------------------|
| <b>Constraint Name:</b>                  | RegisterSS_04                                      |
| <b>ASN.1 Type:</b>                       | Component                                          |
| <b>Derivation Path:</b>                  |                                                    |
| <b>Comments:</b>                         | CF for all facsimile                               |
| <b>Constraint Value</b>                  |                                                    |
| registerSSComponents                     | registerSS_InvokeComp                              |
|                                          | {                                                  |
| ?,                                       | invokeID                                           |
|                                          | localValue                                         |
| 10,                                      | registerSS_Arg                                     |
| {                                        |                                                    |
| ss_Code                                  | '20'H,                                             |
| basicService                             | teleservice '60'H,                                 |
| forwardedToNumber                        | '91342143'H -- International Number + Country code |
| }                                        | }                                                  |
| <b>Detailed Comments:</b>                |                                                    |

| <b>ASN.1 Type Constraint Declaration</b> |                                |
|------------------------------------------|--------------------------------|
| <b>Constraint Name:</b>                  | RegPasswdSS_01                 |
| <b>ASN.1 Type:</b>                       | Component                      |
| <b>Derivation Path:</b>                  |                                |
| <b>Comments:</b>                         | All call restriction services. |
| <b>Constraint Value</b>                  |                                |
| registerPasswordComponents               | registerPassword_InvokeComp    |
|                                          | {                              |
| ?,                                       | invokeID                       |
|                                          | localValue                     |
| 17,                                      | ss_Code                        |
| '90'H                                    | }                              |
| <b>Detailed Comments:</b>                |                                |



| <b>ASN.1 Type Constraint Declaration</b> |                                          |
|------------------------------------------|------------------------------------------|
| <b>Constraint Name:</b>                  | ProcessUSSData_01(ussdString: IA5String) |
| <b>ASN.1 Type:</b>                       | Component                                |
| <b>Derivation Path:</b>                  |                                          |
| <b>Comments:</b>                         |                                          |
| <b>Constraint Value</b>                  |                                          |
| processUnstructuredSSDataComponents      | processUnstructuredSSData_InvokeComp     |
| ?,                                       | {                                        |
|                                          | invokeID                                 |
| 19,                                      | localValue                               |
| ussdString                               | ss_UserData                              |
|                                          | }                                        |
| <b>Detailed Comments:</b>                |                                          |

| <b>ASN.1 Type Constraint Declaration</b>      |                                          |
|-----------------------------------------------|------------------------------------------|
| <b>Constraint Name:</b>                       | ProcessUSSDReq_01(ussdString: IA5String) |
| <b>ASN.1 Type:</b>                            | Component                                |
| <b>Derivation Path:</b>                       |                                          |
| <b>Comments:</b>                              |                                          |
| <b>Constraint Value</b>                       |                                          |
| processUnstructuredSSRequestComponents        | processUnstructuredSSRequest_InvokeComp  |
| ?,                                            | {                                        |
|                                               | invokeID                                 |
| 59,                                           | localValue                               |
|                                               | ussd_Arg                                 |
| {                                             |                                          |
| ussd_DataCodingScheme 'F0'O,                  |                                          |
| ussd_String OC_CodingOfUssdString(ussdString) |                                          |
| }                                             | }                                        |
| <b>Detailed Comments:</b>                     |                                          |

| <b>ASN.1 Type Constraint Declaration</b>      |                                                        |
|-----------------------------------------------|--------------------------------------------------------|
| <b>Constraint Name:</b>                       | USSDReq_04(Invkid: OCTETSTRING; ussdString: IA5String) |
| <b>ASN.1 Type:</b>                            | Component                                              |
| <b>Derivation Path:</b>                       |                                                        |
| <b>Comments:</b>                              | ReturnResult for Unstructured SS request               |
| <b>Constraint Value</b>                       |                                                        |
| unstructuredSSRequestComponents               | unstructuredSSRequest_ReturnResultComp                 |
| OC_OctToInvokeIDType(Invkid),                 | {                                                      |
|                                               | invokeID                                               |
|                                               | result                                                 |
|                                               | {                                                      |
| localValue 60,                                |                                                        |
| ussd_Res                                      |                                                        |
| {                                             |                                                        |
| ussd_DataCodingScheme 'F0'O,                  |                                                        |
| ussd_String OC_CodingOfUssdString(ussdString) |                                                        |
| }                                             | }                                                      |
|                                               | }                                                      |
|                                               | }                                                      |
| <b>Detailed Comments:</b>                     |                                                        |

| <b>ASN.1 Type Constraint Declaration</b> |                                                                       |
|------------------------------------------|-----------------------------------------------------------------------|
| <b>Constraint Name:</b>                  | USSDReq_05(Invkid: OCTETSTRING)                                       |
| <b>ASN.1 Type:</b>                       | Component                                                             |
| <b>Derivation Path:</b>                  |                                                                       |
| <b>Comments:</b>                         | Return Error for UnstructuredSS-Request with the error code USSD Busy |
| <b>Constraint Value</b>                  |                                                                       |
| unstructuredSSRequestComponents          | unstructuredSSRequest_ReturnErrorComp<br>errorCodes                   |
| OC_OctToInvokeIDType(Invkid),            | {<br>invokeID                                                         |
| ussd_Busy                                | errorCode<br>}                                                        |
| <b>Detailed Comments:</b>                |                                                                       |

**ASP constraint declarations**

**TTCN ASP constraint declarations**

| <b>ASP Constraint Declaration</b> |                                   |          |
|-----------------------------------|-----------------------------------|----------|
| <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>         |                                   |          |

| <b>ASP Constraint Declaration</b> |                                |          |
|-----------------------------------|--------------------------------|----------|
| <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                         |          |
| logic_ch                          | ?                              |          |
| msg                               | pdu                            |          |
| fn                                | ?                              |          |
| <b>Detailed Comments:</b>         |                                |          |

| <b>ASP Constraint Declaration</b> |                                       |          |
|-----------------------------------|---------------------------------------|----------|
| <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                                |          |
| 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                       | C_Sap0                     |          |
| logic_ch                   | ch                         |          |
| msg                        | AssgnFI_01                 |          |
| fn                         | ?                          |          |
| <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                       | C_Sap0                                                         |          |
| logic_ch                   | ch                                                             |          |
| msg                        | pdu                                                            |          |
| <b>Detailed Comments:</b>  |                                                                |          |

| ASP Constraint Declaration |                                                                           |          |
|----------------------------|---------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | AuthReq_inv_01(ch: LOGICCH)                                               |          |
| <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                       | C_Sap0                                                                    |          |
| logic_ch                   | ch                                                                        |          |
| msg                        | AuthRequest_inv_01                                                        |          |
| <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_DatRqCstEnq                           |          |
| <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_DatnCImChn                                                                                                                  |          |
| <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) |          |
| <b>ASP Type:</b>           | DL_EstnCmreRq                |          |
| <b>Derivation Path:</b>    |                              |          |
| <b>Comments:</b>           |                              |          |
| Parameter Name             | Parameter Value              | Comments |
| sapi                       | C_Sap0                       |          |
| logic_ch                   | ?                            |          |
| establish_mode             | ?                            |          |
| msg                        | CMReEstReq_02(mi, lai)       |          |
| 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                                  |          |
| logic_ch                   | ch                                      |          |
| 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                                                        |          |
| 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                                   |          |
| 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                                           |          |
| 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                       | C_Sap0                                              |          |
| logic_ch                   | ch                                                  |          |
| msg                        | pdu                                                 |          |
| <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                       | C_Sap0                                  |          |
| logic_ch                   | ch                                      |          |
| msg                        | pdu                                     |          |
| fn                         | ?                                       |          |
| <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                       | C_Sap0                              |          |
| logic_ch                   | ch                                  |          |
| msg                        | 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                                                                                                |          |
| logic_ch                   | ch                                                                                                    |          |
| establish_mode             | C_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                                        |          |
| logic_ch                   | ch                                            |          |
| establish_mode             | C_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                                           |          |
| 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                                      |          |
| 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                                                            |          |
| logic_ch                   | ?                                                                 |          |
| 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                                       |          |
| logic_ch                   | ch                                           |          |
| 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 HANOVER 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_RaInHoacc                            |          |
| <b>Derivation Path:</b>    |                                         |          |
| <b>Comments:</b>           | To received any HANOVER ACCESS message. |          |
| Parameter Name             | Parameter Value                         | Comments |
| sapi                       | C_Sap0                                  |          |
| 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_RaInHoacc                                            |          |
| <b>Derivation Path:</b>    |                                                         |          |
| <b>Comments:</b>           | To received any HANOVER ACCESS message on channel 'ch'. |          |
| 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>    | HndOvFIRcv(ch: LOGICCH; msg: HOFI_PDU)                               |          |
| <b>ASP Type:</b>           | DL_DatInHofl                                                         |          |
| <b>Derivation Path:</b>    |                                                                      |          |
| <b>Comments:</b>           | To match a received HANOVER FAILURE message containing any RR cause. |          |
| 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>    | 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                       | C_Sap0                                                  |          |
| logic_ch                   | ch                                                      |          |
| msg                        | msg                                                     |          |
| fn                         | ?                                                       |          |
| <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                             |          |
| 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_UdatRqImm                             |          |
| <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_UdatRqImm_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                                                            |          |
| 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_UdatRqImm                                                                                  |          |
| <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                                                                     |          |
| 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_UdatRqImmssRej_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                                                                   |          |
| 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                                                                                                             |          |
| 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                       | C_Sap0                                                                        |          |
| logic_ch                   | ch                                                                            |          |
| msg                        | 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                       | C_Sap0                                                                                                 |          |
| logic_ch                   | ch                                                                                                     |          |
| establish_mode             | ?                                                                                                      |          |
| msg                        | pdu                                                                                                    |          |
| fn                         | ?                                                                                                      |          |
| <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.<br>Used var's:<br>ch |          |
| Parameter Name             | Parameter Value                                                                                                  | Comments |
| sapi                       | C_Sap0                                                                                                           |          |
| logic_ch                   | ch                                                                                                               |          |
| msg                        | 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                                  |          |
| 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                     |          |
| 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                       | C_Sap0                                         |          |
| logic_ch                   | ch                                             |          |
| msg                        | msg                                            |          |
| <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                       | C_Sap0                                           |          |
| logic_ch                   | ch                                               |          |
| msg                        | msg                                              |          |
| <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                       | C_Sap0                                         |          |
| logic_ch                   | ch                                             |          |
| msg                        | msg                                            |          |
| fn                         | ?                                              |          |
| <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                                                       |          |
| logic_ch                   | ?                                                            |          |
| 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                                                                                     |          |
| 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                                                                                                                                                                                                                                           |          |
| 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                                                                                                                                                                                                                                           |          |
| 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                                                                                                                                                                                                                                           |          |
| 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                                |          |
| 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                                                             |          |
| 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                          |          |
| 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                       | C_Sap0                               |          |
| logic_ch                   | ch                                   |          |
| msg                        | pdu                                  |          |
| <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                       | C_Sap0                                      |          |
| logic_ch                   | ch                                          |          |
| msg                        | reg                                         |          |
| fn                         | ?                                           |          |
| <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                       | C_Sap0                         |          |
| logic_ch                   | ?                              |          |
| msg                        | reg                            |          |
| fn                         | ?                              |          |
| <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                                                                 |          |
| logic_ch                   | ch                                                                     |          |
| 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                                |          |
| 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                                |          |
| 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                      |          |
| 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                            |          |
| 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                                                |          |
| 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                                                |          |
| 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                          |          |
| 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                                              |          |
| logic_ch                   | ch                                                  |          |
| msg                        | msg                                                 |          |
| <b>Detailed Comments:</b>  |                                                     |          |

| ASP Constraint Declaration |                                                                      |          |
|----------------------------|----------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | SysInfo(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                                                               |          |
| logic_ch                   | ch                                                                   |          |
| msg                        | SynInfor(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                                                                                                                     |          |
| logic_ch                   | ch                                                                                                                         |          |
| msg                        | SysInf2(bcchfl, maxtx, txint, re, nccp)                                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                                                                            |          |

| ASP Constraint Declaration |                                                                                      |          |
|----------------------------|--------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | SysInfo2bis(ch: LOGICCH)                                                             |          |
| <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                                                                               |          |
| logic_ch                   | ch                                                                                   |          |
| msg                        | SysInf2bis                                                                           |          |
| <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                                                                                                                                      |          |
| 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_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'0 |          |
| Parameter Name             | Parameter Value                                                                                           | Comments |
| sapi                       | C_Sap0                                                                                                    |          |
| logic_ch                   | C_BCCH_A_1                                                                                                |          |
| msg                        | 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                       | C_Sap0                                                                                                            |          |
| logic_ch                   | ch                                                                                                                |          |
| msg                        | SysInf4(mcc, mnc, lac, crh, mtmc, neci, maxtx, txint, re)                                                         |          |
| <b>Detailed Comments:</b>  |                                                                                                                   |          |

| <b>ASP Constraint Declaration</b> |                                                                                                                                    |          |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------|
| <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>         |                                                                                                                                    |          |

| <b>ASP Constraint Declaration</b> |                                                                                     |          |
|-----------------------------------|-------------------------------------------------------------------------------------|----------|
| <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>         |                                                                                     |          |

| <b>ASP Constraint Declaration</b> |                                                      |          |
|-----------------------------------|------------------------------------------------------|----------|
| <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>         |                                                      |          |

| <b>ASP Constraint Declaration</b> |                                                               |          |
|-----------------------------------|---------------------------------------------------------------|----------|
| <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                       | C_Sap0                                           |          |
| logic_ch                   | ch                                               |          |
| msg                        | TmsiReallocComp                                  |          |
| fn                         | ?                                                |          |
| <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                                                                                                             |          |
| logic_ch                   | ch                                                                                                                 |          |
| msg                        | message                                                                                                            |          |
| fn                         | ?                                                                                                                  |          |
| <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                                                                                                     |          |
| 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                                                                                                       |          |
| logic_ch                   | ?                                                                                                            |          |
| msg                        | message                                                                                                      |          |
| fn                         | ?                                                                                                            |          |
| <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                                                                                                          |          |
| 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                                                                                                      |          |
| logic_ch                   | ch                                                                                                          |          |
| msg                        | message                                                                                                     |          |
| <b>Detailed Comments:</b>  |                                                                                                             |          |

**PDU constraint declarations**

**TTCN PDU constraint declarations**

| PDU Constraint Declaration |                                                                          |          |
|----------------------------|--------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Alerting_01(Ti: TI)                                                      |          |
| <b>PDU Type:</b>           | ALERT_PDU                                                                |          |
| <b>Derivation Path:</b>    |                                                                          |          |
| <b>Comments:</b>           | An ALERTING message containing mandatory IE's only to be sent to the MS. |          |
| Field Name                 | Field Value                                                              | Comments |
| ti                         | Ti                                                                       |          |
| ccpd                       | '0011'B                                                                  |          |
| mt                         | '00000001'B                                                              |          |
| fie                        | OMIT                                                                     |          |
| pi                         | OMIT                                                                     |          |
| uu                         | OMIT                                                                     |          |
| ssvi                       | OMIT                                                                     |          |
| <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>Comments:</b>           | An ALERTING message containing facility IE to be sent to the MS. |          |
| Field Name                 | Field Value                                                      | Comments |
| ti                         | Ti                                                               |          |
| ccpd                       | '0011'B                                                          |          |
| mt                         | '00000001'B                                                      |          |
| fie                        | fie                                                              |          |
| pi                         | OMIT                                                             |          |
| uu                         | OMIT                                                             |          |
| ssvi                       | OMIT                                                             |          |
| <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>Comments:</b>           | To match an received ALERTING message |          |
| Field Name                 | Field Value                           | Comments |
| ti                         | ti                                    |          |
| ccpd                       | '0011'B                               |          |
| mt                         | '0?000001'B                           |          |
| fie                        | *                                     |          |
| pi                         | OMIT                                  |          |
| uu                         | *                                     |          |
| ssvi                       | *                                     |          |
| <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>Comments:</b>           | To match an received ALERTING message |          |
| Field Name                 | Field Value                           | Comments |
| ti                         | Ti                                    |          |
| ccpd                       | '0011'B                               |          |
| mt                         | '0?000001'B                           |          |
| fie                        | *                                     |          |
| pi                         | OMIT                                  |          |
| uu                         | *                                     |          |
| ssvi                       | *                                     |          |
| <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>Comments:</b>           | An ASSIGNMENT COMMAND message for hopping without starting time.                                                                                      |          |
| Field Name                 | Field Value                                                                                                                                           | Comments |
| ski                        | '0000'B                                                                                                                                               |          |
| 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                    | OMIT                                                                                                                                                  |          |
| ch2mod                     | OMIT                                                                                                                                                  |          |
| ma_at                      | ma                                                                                                                                                    |          |
| strt                       | OMIT                                                                                                                                                  |          |
| frql_bt                    | OMIT                                                                                                                                                  |          |
| ch1d_bt                    | OMIT                                                                                                                                                  |          |
| ch2d_bt                    | OMIT                                                                                                                                                  |          |
| frqchs_bt                  | OMIT                                                                                                                                                  |          |
| ma_bt                      | OMIT                                                                                                                                                  |          |
| cphms                      | Cphms                                                                                                                                                 |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                       |          |

| PDU Constraint Declaration |                                                                                                                               |          |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | AsgnCmd_nfh(type: CH_TDMA; slot: SN; tsc: TSC; par_pwlvl, arfcn: INTEGER; cchd: CCHD; chmod: CHMOD; strt: STRT; cphms: CPHMS) |          |
| <b>PDU Type:</b>           | ASS_CMD_PDU                                                                                                                   |          |
| <b>Derivation Path:</b>    |                                                                                                                               |          |
| <b>Comments:</b>           | An ASSIGNMENT COMMAND message. The channel mode and type are specified as parameters.                                         |          |
| Field Name                 | Field Value                                                                                                                   | 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                    | OMIT                                                                                                                          |          |
| cchd                       | cchd                                                                                                                          |          |
| ch1mod                     | chmod                                                                                                                         |          |
| ch2d_at                    | OMIT                                                                                                                          |          |
| ch2mod                     | OMIT                                                                                                                          |          |
| ma_at                      | OMIT                                                                                                                          |          |
| strt                       | strt                                                                                                                          |          |
| frql_bt                    | OMIT                                                                                                                          |          |
| ch1d_bt                    | OMIT                                                                                                                          |          |
| ch2d_bt                    | OMIT                                                                                                                          |          |
| frqchs_bt                  | OMIT                                                                                                                          |          |
| ma_bt                      | OMIT                                                                                                                          |          |
| cphms                      | cphms                                                                                                                         |          |
| <b>Detailed Comments:</b>  | 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>Comments:</b>           | An ASSIGNMENT COMMAND message                                                                                                             |          |
| Field Name                 | Field Value                                                                                                                               | Comments |
| ski                        | '0000'B                                                                                                                                   |          |
| 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                    | OMIT                                                                                                                                      |          |
| ch2mod                     | OMIT                                                                                                                                      |          |
| ma_at                      | ma                                                                                                                                        |          |
| strt                       | OMIT                                                                                                                                      |          |
| frql_bt                    | OMIT                                                                                                                                      |          |
| ch1d_bt                    | OMIT                                                                                                                                      |          |
| ch2d_bt                    | OMIT                                                                                                                                      |          |
| frqchs_bt                  | OMIT                                                                                                                                      |          |
| ma_bt                      | OMIT                                                                                                                                      |          |
| cphms                      | cphms                                                                                                                                     |          |
| <b>Detailed Comments:</b>  |                                                                                                                                           |          |

| PDU Constraint Declaration |                                                                                                                                                       |          |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | 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) |          |
| <b>PDU Type:</b>           | ASS_CMD_PDU                                                                                                                                           |          |
| <b>Derivation Path:</b>    |                                                                                                                                                       |          |
| <b>Comments:</b>           | An ASSIGNMENT COMMAND message                                                                                                                         |          |
| Field Name                 | Field Value                                                                                                                                           | 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                    | OMIT                                                                                                                                                  |          |
| ch2mod                     | OMIT                                                                                                                                                  |          |
| ma_at                      | ma                                                                                                                                                    |          |
| strt                       | OMIT                                                                                                                                                  |          |
| frql_bt                    | OMIT                                                                                                                                                  |          |
| ch1d_bt                    | OMIT                                                                                                                                                  |          |
| ch2d_bt                    | OMIT                                                                                                                                                  |          |
| frqchs_bt                  | OMIT                                                                                                                                                  |          |
| ma_bt                      | OMIT                                                                                                                                                  |          |
| cphms                      | cphms                                                                                                                                                 |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                       |          |

| 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>Comments:</b>           | An ASSIGNMENT COMMAND message                                                                                     |          |
| Field Name                 | Field Value                                                                                                       | Comments |
| ski                        | '0000'B                                                                                                           |          |
| 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                    | OMIT                                                                                                              |          |
| cchd                       | cchd                                                                                                              |          |
| ch1mod                     | chmod                                                                                                             |          |
| ch2d_at                    | OMIT                                                                                                              |          |
| ch2mod                     | OMIT                                                                                                              |          |
| ma_at                      | OMIT                                                                                                              |          |
| strt                       | strt                                                                                                              |          |
| frql_bt                    | OMIT                                                                                                              |          |
| ch1d_bt                    | OMIT                                                                                                              |          |
| ch2d_bt                    | OMIT                                                                                                              |          |
| frqchs_bt                  | OMIT                                                                                                              |          |
| ma_bt                      | OMIT                                                                                                              |          |
| cphms                      | OMIT                                                                                                              |          |
| <b>Detailed Comments:</b>  |                                                                                                                   |          |

| PDU Constraint Declaration |                                                                                                                      |          |
|----------------------------|----------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | AsgnCmd_22_Ae1(ts_ccch: BITSTRING; par_chtype: CH_TDMA; par_flist: OCTETSTRING; par_flistl: OCTETSTRING; n: INTEGER) |          |
| <b>PDU Type:</b>           | ASS_CMD_PDU                                                                                                          |          |
| <b>Derivation Path:</b>    |                                                                                                                      |          |
| <b>Comments:</b>           | An ASSIGNMENT COMMAND message assigning TCH/F non FH channel in cell A for EGSM.                                     |          |
| Field Name                 | Field Value                                                                                                          | 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))              |          |
| pcmd                       | Pcmd_19('01001'B)                                                                                                    |          |
| frql_at                    | Frql_20_egsm(par_flist, par_flistl)                                                                                  |          |
| cchd                       | OMIT                                                                                                                 |          |
| ch1mod                     | OMIT                                                                                                                 |          |
| ch2d_at                    | OMIT                                                                                                                 |          |
| ch2mod                     | OMIT                                                                                                                 |          |
| ma_at                      | OMIT                                                                                                                 |          |
| strt                       | OMIT                                                                                                                 |          |
| frql_bt                    | OMIT                                                                                                                 |          |
| ch1d_bt                    | OMIT                                                                                                                 |          |
| ch2d_bt                    | OMIT                                                                                                                 |          |
| frqchs_bt                  | OMIT                                                                                                                 |          |
| ma_bt                      | OMIT                                                                                                                 |          |
| cphms                      | OMIT                                                                                                                 |          |
| <b>Detailed Comments:</b>  |                                                                                                                      |          |

| 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>Comments:</b>           | An ASSIGNMENT COMMAND message assigning TCH/F non FH channel in cell A for EGSM.                              |          |
| Field Name                 | Field Value                                                                                                   | 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))       |          |
| pcmd                       | Pcmd_19('01001'B)                                                                                             |          |
| frql_at                    | OMIT                                                                                                          |          |
| cchd                       | CellChDes_20_Be(par_cchd)                                                                                     |          |
| ch1mod                     | OMIT                                                                                                          |          |
| ch2d_at                    | OMIT                                                                                                          |          |
| ch2mod                     | OMIT                                                                                                          |          |
| ma_at                      | MoblAllc_20_Be1(par_ma)                                                                                       |          |
| strt                       | OMIT                                                                                                          |          |
| frql_bt                    | OMIT                                                                                                          |          |
| ch1d_bt                    | OMIT                                                                                                          |          |
| ch2d_bt                    | OMIT                                                                                                          |          |
| frqchs_bt                  | OMIT                                                                                                          |          |
| ma_bt                      | OMIT                                                                                                          |          |
| cphms                      | OMIT                                                                                                          |          |
| <b>Detailed Comments:</b>  |                                                                                                               |          |

| PDU Constraint Declaration |                                                                                                                                    |          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | AsgnCmd_22_Ae3(ts_ccch: BITSTRING; par_chtype: CH_TDMA; par_cchd: OCTETSTRING; par_ma1: BITSTRING; par_ma2: BITSTRING; n: INTEGER) |          |
| <b>PDU Type:</b>           | ASS_CMD_PDU                                                                                                                        |          |
| <b>Derivation Path:</b>    |                                                                                                                                    |          |
| <b>Comments:</b>           | An ASSIGNMENT COMMAND message assigning TCH/F non FH channel in cell A for EGSM.                                                   |          |
| Field Name                 | Field Value                                                                                                                        | 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))                            |          |
| pcmd                       | Pcmd_19('01001'B)                                                                                                                  |          |
| frql_at                    | OMIT                                                                                                                               |          |
| cchd                       | CellChDes_20_Be(par_cchd)                                                                                                          |          |
| ch1mod                     | OMIT                                                                                                                               |          |
| ch2d_at                    | OMIT                                                                                                                               |          |
| ch2mod                     | OMIT                                                                                                                               |          |
| ma_at                      | MoblAllc_20_Be2iei(par_ma1, par_ma2)                                                                                               |          |
| strt                       | OMIT                                                                                                                               |          |
| frql_bt                    | OMIT                                                                                                                               |          |
| ch1d_bt                    | OMIT                                                                                                                               |          |
| ch2d_bt                    | OMIT                                                                                                                               |          |
| frqchs_bt                  | OMIT                                                                                                                               |          |
| ma_bt                      | OMIT                                                                                                                               |          |
| cphms                      | OMIT                                                                                                                               |          |
| <b>Detailed Comments:</b>  |                                                                                                                                    |          |

| 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>Comments:</b>           | An ASSIGNMENT COMMAND message containing invalid skip identifier |          |
| Field Name                 | Field Value                                                      | Comments |
| ski                        | '0100'B                                                          |          |
| rrpd                       | '0110'B                                                          |          |
| mt                         | '00101110'B                                                      |          |
| ch1d_at                    | ChDescrp_nfh('00001'B, slot, tsc, C_arfcnA)                      |          |
| pcmd                       | Pcmd_19('01001'B)                                                |          |
| frql_at                    | OMIT                                                             |          |
| cchd                       | OMIT                                                             |          |
| ch1mod                     | OMIT                                                             |          |
| ch2d_at                    | OMIT                                                             |          |
| ch2mod                     | OMIT                                                             |          |
| ma_at                      | OMIT                                                             |          |
| strt                       | OMIT                                                             |          |
| frql_bt                    | OMIT                                                             |          |
| ch1d_bt                    | OMIT                                                             |          |
| ch2d_bt                    | OMIT                                                             |          |
| frqchs_bt                  | OMIT                                                             |          |
| ma_bt                      | OMIT                                                             |          |
| cphms                      | OMIT                                                             |          |
| <b>Detailed Comments:</b>  |                                                                  |          |

| PDU Constraint Declaration |                                                                                                  |          |
|----------------------------|--------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | AsgnCmd_r14(slot: SN; tsc: TSC; strt: STRT)                                                      |          |
| <b>PDU Type:</b>           | ASS_CMD_PDU                                                                                      |          |
| <b>Derivation Path:</b>    |                                                                                                  |          |
| <b>Comments:</b>           | An ASSIGNMENT COMMAND message defined by PIXIT                                                   |          |
| Field Name                 | Field Value                                                                                      | Comments |
| ski                        | '0000'B                                                                                          |          |
| rrpd                       | '0110'B                                                                                          |          |
| mt                         | '00101110'B                                                                                      |          |
| ch1d_at                    | ChDescrp_fh(TSPX_Chtp1, slot, tsc,<br>INT_TO_BIT(TSPX_Maio2, 6),<br>INT_TO_BIT(TSPX_Hsn2, 6))    |          |
| pcmd                       | Pcmd_19(INT_TO_BIT(TSPX_PwrlvIA,<br>5))                                                          |          |
| frql_at                    | OMIT                                                                                             |          |
| cchd                       | OMIT                                                                                             |          |
| ch1mod                     | ChMod_r01                                                                                        |          |
| ch2d_at                    | OMIT                                                                                             |          |
| ch2mod                     | OMIT                                                                                             |          |
| ma_at                      | MoblAllc_r06                                                                                     |          |
| strt                       | strt                                                                                             |          |
| frql_bt                    | OMIT                                                                                             |          |
| ch1d_bt                    | ChDescrp_fhiei(TSPX_Chtp1, slot, tsc,<br>INT_TO_BIT(TSPX_Maio3, 6),<br>INT_TO_BIT(TSPX_Hsn3, 6)) |          |
| ch2d_bt                    | OMIT                                                                                             |          |
| frqchs_bt                  | OMIT                                                                                             |          |
| ma_bt                      | MoblAllc_r07                                                                                     |          |
| cphms                      | OMIT                                                                                             |          |
| <b>Detailed Comments:</b>  | 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>Comments:</b>           | An ASSIGNMENT COMMAND message defined by PIXIT                                                     |          |
| Field Name                 | Field Value                                                                                        | Comments |
| ski                        | '0000'B                                                                                            |          |
| rrpd                       | '0110'B                                                                                            |          |
| mt                         | '00101110'B                                                                                        |          |
| ch1d_at                    | ChDescrp_fh(TSPX_Chtp2, slot, tsc,<br>INT_TO_BIT(TSPX_Maio5, 6),<br>INT_TO_BIT(TSPX_Hsn5, 6))      |          |
| pcmd                       | Pcmd_19(INT_TO_BIT(TSPX_PwrlvIB,<br>5))                                                            |          |
| frql_at                    | OMIT                                                                                               |          |
| cchd                       | OMIT                                                                                               |          |
| ch1mod                     | ChMod_r02                                                                                          |          |
| ch2d_at                    | OMIT                                                                                               |          |
| ch2mod                     | OMIT                                                                                               |          |
| ma_at                      | MoblAllc_r09                                                                                       |          |
| strt                       | strt                                                                                               |          |
| frql_bt                    | OMIT                                                                                               |          |
| ch1d_bt                    | ChDescrp_fhiei(TSPX_Chtp2, slot2, tsc2,<br>INT_TO_BIT(TSPX_Maio3, 6),<br>INT_TO_BIT(TSPX_Hsn3, 6)) |          |
| ch2d_bt                    | OMIT                                                                                               |          |
| frqchs_bt                  | OMIT                                                                                               |          |
| ma_bt                      | MoblAllc_r07                                                                                       |          |
| cphms                      | OMIT                                                                                               |          |
| <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; str: STRT)                                                       |          |
| <b>PDU Type:</b>           | ASS_CMD_PDU                                                                                      |          |
| <b>Derivation Path:</b>    |                                                                                                  |          |
| <b>Comments:</b>           | An ASSIGNMENT COMMAND message defined by PIXIT                                                   |          |
| Field Name                 | Field Value                                                                                      | Comments |
| ski                        | '0000'B                                                                                          |          |
| rrpd                       | '0110'B                                                                                          |          |
| mt                         | '00101110'B                                                                                      |          |
| ch1d_at                    | ChDescrp_fh(TSPX_Chtp4, slot, tsc,<br>INT_TO_BIT(TSPX_Maio8, 6),<br>INT_TO_BIT(TSPX_Hsn8, 6))    |          |
| pcmd                       | Pcmd_19(INT_TO_BIT(TSPX_PwrlvIC,<br>5))                                                          |          |
| frql_at                    | OMIT                                                                                             |          |
| cchd                       | OMIT                                                                                             |          |
| ch1mod                     | ChMod_sign_iei                                                                                   |          |
| ch2d_at                    | OMIT                                                                                             |          |
| ch2mod                     | OMIT                                                                                             |          |
| ma_at                      | MoblAllc_r12                                                                                     |          |
| strt                       | strt                                                                                             |          |
| frql_bt                    | OMIT                                                                                             |          |
| ch1d_bt                    | ChDescrp_fhiei(TSPX_Chtp4, slot, tsc,<br>INT_TO_BIT(TSPX_Maio9, 6),<br>INT_TO_BIT(TSPX_Hsn9, 6)) |          |
| ch2d_bt                    | OMIT                                                                                             |          |
| frqchs_bt                  | OMIT                                                                                             |          |
| ma_bt                      | MoblAllc_r13                                                                                     |          |
| cphms                      | OMIT                                                                                             |          |
| <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; str: STRT)                                                         |          |
| <b>PDU Type:</b>           | ASS_CMD_PDU                                                                                        |          |
| <b>Derivation Path:</b>    |                                                                                                    |          |
| <b>Comments:</b>           | An ASSIGNMENT COMMAND message defined by PIXIT                                                     |          |
| Field Name                 | Field Value                                                                                        | Comments |
| ski                        | '0000'B                                                                                            |          |
| rrpd                       | '0110'B                                                                                            |          |
| mt                         | '00101110'B                                                                                        |          |
| ch1d_at                    | ChDescrp_fh(TSPX_Chtp6, slot, tsc,<br>INT_TO_BIT(TSPX_Maio12, 6),<br>INT_TO_BIT(TSPX_Hsn12, 6))    |          |
| pcmd                       | Pcmd_19(INT_TO_BIT(TSPX_PwrlvID,<br>5))                                                            |          |
| frql_at                    | OMIT                                                                                               |          |
| cchd                       | OMIT                                                                                               |          |
| ch1mod                     | ChMod_sign_iei                                                                                     |          |
| ch2d_at                    | OMIT                                                                                               |          |
| ch2mod                     | OMIT                                                                                               |          |
| ma_at                      | MoblAllc_r16                                                                                       |          |
| strt                       | strt                                                                                               |          |
| frql_bt                    | OMIT                                                                                               |          |
| ch1d_bt                    | ChDescrp_fhiei(TSPX_Chtp6, slot, tsc,<br>INT_TO_BIT(TSPX_Maio13, 6),<br>INT_TO_BIT(TSPX_Hsn13, 6)) |          |
| ch2d_bt                    | OMIT                                                                                               |          |
| frqchs_bt                  | OMIT                                                                                               |          |
| ma_bt                      | MoblAllc_r17                                                                                       |          |
| cphms                      | OMIT                                                                                               |          |
| <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>Comments:</b>           | An ASSIGNMENT COMPLETE message containing any cause. |          |
| Field Name                 | Field Value                                          | Comments |
| ski                        | '0000'B                                              |          |
| rrpd                       | '0110'B                                              |          |
| mt                         | '00101001'B                                          |          |
| rrcau                      | ?                                                    |          |
| <b>Detailed Comments:</b>  |                                                      |          |

| PDU Constraint Declaration |             |          |
|----------------------------|-------------|----------|
| <b>Constraint Name:</b>    | AssgnFI_01  |          |
| <b>PDU Type:</b>           | ASSFL_PDU   |          |
| <b>Derivation Path:</b>    |             |          |
| <b>Comments:</b>           |             |          |
| Field Name                 | Field Value | Comments |
| ski                        | '0000'B     |          |
| rrpd                       | '0110'B     |          |
| mt                         | '00101111'B |          |
| rrcau                      | ?           |          |
| <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>Comments:</b>           | #6F         |          |
| Field Name                 | Field Value | Comments |
| rrcau                      | '01101111'B |          |
| <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>Comments:</b>           | An ABORT message with reject cause which should be given as parameter. |          |
| Field Name                 | Field Value                                                            | 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>Comments:</b>           | An AUTHENTICATION REQUEST message containing default ciphering key sequence number and default challenge RAND from PIXIT. |          |
| Field Name                 | Field Value                                                                                                               | Comments |
| ski                        | '0000'B                                                                                                                   |          |
| mmpd                       | '0101'B                                                                                                                   |          |
| mt                         | '00010010'B                                                                                                               |          |
| shoct                      | '0000'B                                                                                                                   |          |
| cphksn                     | CphKeySN_07(cksn)                                                                                                         |          |
| rand                       | rand                                                                                                                      |          |
| <b>Detailed Comments:</b>  |                                                                                                                           |          |

| PDU Constraint Declaration |                                                                           |          |
|----------------------------|---------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | AuthRequest_inv_01                                                        |          |
| <b>PDU Type:</b>           | AUTH_RQ_PDU                                                               |          |
| <b>Derivation Path:</b>    |                                                                           |          |
| <b>Comments:</b>           | An invalid AUTHENTICATION REQUEST message containing arbitrary spare bits |          |
| Field Name                 | Field Value                                                               | Comments |
| ski                        | '0000'B                                                                   |          |
| mmpd                       | '0101'B                                                                   |          |
| mt                         | '00010010'B                                                               |          |
| shoct                      | '0101'B                                                                   |          |
| cphksn                     | CphKeySN_02                                                               |          |
| rand                       | TSPX_RANDDef                                                              |          |
| <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>Comments:</b>           | An AUTHENTICATION REJECT message. |          |
| Field Name                 | Field Value                       | 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>Comments:</b>           | An AUTHENTICATION RESPONSE message matching any SRES. |          |
| Field Name                 | Field Value                                           | 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>Comments:</b>           | a CALL CONFIRMED message with TI parametrized |          |
| Field Name                 | Field Value                                   | Comments |
| ti                         | ti                                            |          |
| ccpd                       | '0011'B                                       |          |
| mt                         | '0?001000'B                                   |          |
| bcri                       | *                                             |          |
| bcap1                      | *                                             |          |
| bcap2                      | *                                             |          |
| cau                        | OMIT                                          |          |
| cccap                      | *                                             |          |
| <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>Comments:</b>           | a CALL CONFIRMED message with cause #17. |          |
| Field Name                 | Field Value                              | Comments |
| ti                         | Ti                                       |          |
| ccpd                       | '0011'B                                  |          |
| mt                         | '0?001000'B                              |          |
| bcri                       | *                                        |          |
| bcap1                      | *                                        |          |
| bcap2                      | *                                        |          |
| cau                        | Cause_17                                 |          |
| cccap                      | *                                        |          |
| <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>Comments:</b>           | a CALL CONFIRMED message with bcap1 presented but not checked |          |
| Field Name                 | Field Value                                                   | Comments |
| ti                         | ti                                                            |          |
| ccpd                       | '0011'B                                                       |          |
| mt                         | '0?001000'B                                                   |          |
| bcri                       | *                                                             |          |
| bcap1                      | ?                                                             |          |
| bcap2                      | *                                                             |          |
| cau                        | OMIT                                                          |          |
| cccap                      | *                                                             |          |
| <b>Detailed Comments:</b>  |                                                               |          |

| <b>PDU Constraint Declaration</b> |                                                         |          |
|-----------------------------------|---------------------------------------------------------|----------|
| <b>Constraint Name:</b>           | CallConfirm_04(ti: TI; Bcap1: BCAP)                     |          |
| <b>PDU Type:</b>                  | CALL_CO_PDU                                             |          |
| <b>Derivation Path:</b>           |                                                         |          |
| <b>Comments:</b>                  | a CALL CONFIRMED message with TI and bcap1 parametrized |          |
| Field Name                        | Field Value                                             | Comments |
| ti                                | ti                                                      |          |
| ccpd                              | '0011'B                                                 |          |
| mt                                | '0?001000'B                                             |          |
| bcri                              | OMIT                                                    |          |
| bcap1                             | Bcap1                                                   |          |
| bcap2                             | OMIT                                                    |          |
| cau                               | OMIT                                                    |          |
| cccap                             | *                                                       |          |
| <b>Detailed Comments:</b>         |                                                         |          |

| <b>PDU Constraint Declaration</b> |                                                     |          |
|-----------------------------------|-----------------------------------------------------|----------|
| <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>Comments:</b>                  | a CALL CONFIRMED message with TI parametrized       |          |
| Field Name                        | Field Value                                         | Comments |
| ti                                | ti                                                  |          |
| ccpd                              | '0011'B                                             |          |
| mt                                | '0?001000'B                                         |          |
| bcri                              | ri                                                  |          |
| bcap1                             | Bcap1                                               |          |
| bcap2                             | Bcap2                                               |          |
| cau                               | OMIT                                                |          |
| cccap                             | *                                                   |          |
| <b>Detailed Comments:</b>         |                                                     |          |

| <b>PDU Constraint Declaration</b> |                                                                         |          |
|-----------------------------------|-------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>           | CallConfirm_20(ti: TI)                                                  |          |
| <b>PDU Type:</b>                  | CALL_CO_PDU                                                             |          |
| <b>Derivation Path:</b>           |                                                                         |          |
| <b>Comments:</b>                  | a CALL CONFIRMED message without bearer capability information elements |          |
| Field Name                        | Field Value                                                             | Comments |
| ti                                | ti                                                                      |          |
| ccpd                              | '0011'B                                                                 |          |
| mt                                | '0?001000'B                                                             |          |
| bcri                              | OMIT                                                                    |          |
| bcap1                             | OMIT                                                                    |          |
| bcap2                             | OMIT                                                                    |          |
| cau                               | OMIT                                                                    |          |
| cccap                             | OMIT                                                                    |          |
| <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>Comments:</b>           | An CALL PROCEEDING message with mandatory IE's only. |          |
| Field Name                 | Field Value                                          | Comments |
| ti                         | Ti                                                   |          |
| ccpd                       | '0011'B                                              |          |
| mt                         | '00000010'B                                          |          |
| bcri                       | OMIT                                                 |          |
| bcap1                      | OMIT                                                 |          |
| bcap2                      | OMIT                                                 |          |
| fie                        | OMIT                                                 |          |
| pi                         | OMIT                                                 |          |
| <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>Comments:</b>           | An CALL PROCEEDING message template used for CallProcGen |          |
| Field Name                 | Field Value                                              | Comments |
| ti                         | ?                                                        |          |
| ccpd                       | '0011'B                                                  |          |
| mt                         | '00000010'B                                              |          |
| bcri                       | OMIT                                                     |          |
| bcap1                      | OMIT                                                     |          |
| bcap2                      | OMIT                                                     |          |
| fie                        | OMIT                                                     |          |
| pi                         | OMIT                                                     |          |
| <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>Comments:</b>           | used as an invalid CC message. |          |
| Field Name                 | Field Value                    | Comments |
| ti                         | Ti                             |          |
| ccpd                       | '0011'B                        |          |
| mt                         | '00000010'B                    |          |
| bcri                       | '01011110'B                    |          |
| bcap1                      | Bcap_02                        |          |
| bcap2                      | OMIT                           |          |
| fie                        | OMIT                           |          |
| pi                         | OMIT                           |          |
| <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>Comments:</b>           | A CC STATUS message to match any received CC STATUS. |          |
| Field Name                 | Field Value                                          | Comments |
| ti                         | Ti                                                   |          |
| ccpd                       | '0011'B                                              |          |
| mt                         | '0?111101'B                                          |          |
| cau                        | ?                                                    |          |
| cst                        | ?                                                    |          |
| acst                       | *                                                    |          |
| <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>Comments:</b>           | A STATUS message containing cause value #97 |          |
| Field Name                 | Field Value                                 | Comments |
| ti                         | ti                                          |          |
| ccpd                       | '0011'B                                     |          |
| mt                         | '0?111101'B                                 |          |
| cau                        | Cause_02                                    |          |
| cst                        | ?                                           |          |
| acst                       | *                                           |          |
| <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>Comments:</b>           | CC STATUS message containing cause value #98 |          |
| Field Name                 | Field Value                                  | Comments |
| ti                         | Ti                                           |          |
| cau                        | Cause_03                                     |          |
| <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>Comments:</b>           | A CC STATUS message containing cause value #96 |          |
| Field Name                 | Field Value                                    | Comments |
| ti                         | Ti                                             |          |
| cau                        | Cause_04                                       |          |
| <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>Comments:</b>           | A CC STATUS message to match a received CC STATUS containing CC state 'st', cause = #97 |          |
| Field Name                 | Field Value                                                                             | Comments |
| ti                         | Ti                                                                                      |          |
| ccpd                       | '0011'B                                                                                 |          |
| mt                         | '0?111101'B                                                                             |          |
| cau                        | Cause_02                                                                                |          |
| cst                        | CallState_01(st)                                                                        |          |
| acst                       | *                                                                                       |          |
| <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>Comments:</b>           | A CC STATUS message to match a received CC STATUS containing CC state = 'st', cause = #30 |          |
| Field Name                 | Field Value                                                                               | Comments |
| ti                         | Ti                                                                                        |          |
| ccpd                       | '0011'B                                                                                   |          |
| mt                         | '0?111101'B                                                                               |          |
| cau                        | Cause_18                                                                                  |          |
| cst                        | CallState_01(st)                                                                          |          |
| acst                       | *                                                                                         |          |
| <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>Comments:</b>           | A CC STATUS message without mandatory cause IE and call state IE. |          |
| Field Name                 | Field Value                                                       | Comments |
| ti                         | ti                                                                |          |
| ccpd                       | '0011'B                                                           |          |
| mt                         | '00111101'B                                                       |          |
| cau                        | OMIT                                                              |          |
| cst                        | OMIT                                                              |          |
| acst                       | OMIT                                                              |          |
| <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>Comments:</b>           | A STATUS ENQUIRY message |          |
| Field Name                 | Field Value              | 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>Comments:</b>           |                                     |          |
| Field Name                 | Field Value                         | Comments |
| ski                        | '0000'B                             |          |
| rrpd                       | '0110'B                             |          |
| mt                         | '00010111'B                         |          |
| chd                        | chd                                 |          |
| chmod                      | chmd                                |          |
| <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>Comments:</b>           |                                     |          |
| Field Name                 | Field Value                         | Comments |
| ski                        | '0000'B                             |          |
| rrpd                       | '0110'B                             |          |
| mt                         | '00010111'B                         |          |
| chd                        | chd                                 |          |
| chmod                      | chmd                                |          |
| <b>Detailed Comments:</b>  |                                     |          |

| PDU Constraint Declaration |                                                            |          |
|----------------------------|------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | ChmomoAck_08(type: CH_TDMA; chmd: B_8; slot: SN; tsc: TSC) |          |
| <b>PDU Type:</b>           | CHMMO_ACK_PDU                                              |          |
| <b>Derivation Path:</b>    |                                                            |          |
| <b>Comments:</b>           |                                                            |          |
| Field Name                 | Field Value                                                | Comments |
| ski                        | '0000'B                                                    |          |
| rrpd                       | '0110'B                                                    |          |
| mt                         | '00010111'B                                                |          |
| chd                        | ChDescrp_nfh(type, slot, tsc, TCV_tch_arfcn)               |          |
| chmod                      | ChMod_mand(chmd)                                           |          |
| <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>Comments:</b>           | the channel being modified is default full rate traffic channel. |          |
| Field Name                 | Field Value                                                      | Comments |
| ski                        | '0000'B                                                          |          |
| rrpd                       | '0110'B                                                          |          |
| mt                         | '00010000'B                                                      |          |
| chd                        | chd                                                              |          |
| chmod                      | chmd                                                             |          |
| <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>Comments:</b>           |                                     |          |
| Field Name                 | Field Value                         | Comments |
| ski                        | '0000'B                             |          |
| rrpd                       | '0110'B                             |          |
| mt                         | '00010000'B                         |          |
| chd                        | chd                                 |          |
| chmod                      | chmd                                |          |
| <b>Detailed Comments:</b>  |                                     |          |

| PDU Constraint Declaration |                                                            |          |
|----------------------------|------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | ChmomoReq_07(type: CH_TDMA; chmd: B_8; slot: SN; tsc: TSC) |          |
| <b>PDU Type:</b>           | CHMMO_PDU                                                  |          |
| <b>Derivation Path:</b>    |                                                            |          |
| <b>Comments:</b>           |                                                            |          |
| Field Name                 | Field Value                                                | Comments |
| ski                        | '0000'B                                                    |          |
| rrpd                       | '0110'B                                                    |          |
| mt                         | '00010000'B                                                |          |
| chd                        | ChDescrp_nfh(type, slot, tsc,<br>TCV_tch_arfcn)            |          |
| chmod                      | ChMod_mand(chmd)                                           |          |
| <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>Comments:</b>           | A CHANNEL RELEASE message with RR cause = normal event |          |
| Field Name                 | Field Value                                            | Comments |
| ski                        | '0000'B                                                |          |
| rrpd                       | '0110'B                                                |          |
| mt                         | '00001101'B                                            |          |
| rrcau                      | '00000000'B                                            |          |
| <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>Comments:</b>           | An invalid CHANNEL RELEASE message without mandatory IE RR cause |          |
| Field Name                 | Field Value                                                      | Comments |
| rrcau                      | OMIT                                                             |          |
| <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>Comments:</b>           | A CHANNEL RELEASE message containing incorrect skip indicator 6. |          |
| Field Name                 | Field Value                                                      | Comments |
| ski                        | '0110'B                                                          |          |
| <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>Comments:</b>           | A CHANNEL RELEASE message containing additional IE unknown in the RR protocol |          |
| Field Name                 | Field Value                                                                   | Comments |
| ski                        | '0000'B                                                                       |          |
| 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>Comments:</b>           | A CHANNEL REQUEST message containing establishment cause = answer to paging. |          |
| Field Name                 | Field Value                                                                  | 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>Comments:</b>           | To match any received CHANNEL REQUEST message |          |
| Field Name                 | Field Value                                   | 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>Comments:</b>           | To match the received CHANNEL REQUEST message containing establishment cause = '0001'B,<br>"other procedures which can be completed with an SDCCH". |          |
| Field Name                 | Field Value                                                                                                                                         | 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>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                                                                                                                                                                                                                               | 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>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                                                                                                                                                                                                 | 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>Comments:</b>           | To match the received CHANNEL REQUEST message which originates a half rate data call (establishment cause = '0101'B). |          |
| Field Name                 | Field Value                                                                                                           | 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>Comments:</b>           | To match the received CHANNEL REQUEST message with establishment cause = '0010'B. |          |
| Field Name                 | Field Value                                                                       | 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>Comments:</b>           | To match the received CHANNEL REQUEST message with establishment cause = '0011'B. |          |
| Field Name                 | Field Value                                                                       | 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>Comments:</b>           | To match the received CHANNEL REQUEST message with establishment cause = '000'B. |          |
| Field Name                 | Field Value                                                                      | Comments |
| ecau_rrf                   | '000?????'B                                                                      |          |
| <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>Comments:</b>           | A CHANNEL REQUEST message with establishment cause = '110'B. |          |
| Field Name                 | Field Value                                                  | 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>Comments:</b>           | To match the received CHANNEL REQUEST message with establishment cause = '011010'B. |          |
| Field Name                 | Field Value                                                                         | 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>Comments:</b>           | To match the received CHANNEL REQUEST message with establishment cause = '100'B. |          |
| Field Name                 | Field Value                                                                      | 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>Comments:</b>           | To match the received CHANNEL REQUEST message with establishment cause = '100'B or '0010'B or '0001'B. |          |
| Field Name                 | Field Value                                                                                            | 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>Comments:</b>           | To match the received CHANNEL REQUEST message with establishment cause = '100'B or '0011'B or '0001'B. |          |
| Field Name                 | Field Value                                                                                            | 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>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                                                                                                                                                 | 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>Comments:</b>           | To match the received CHANNEL REQUEST message with establishment cause = '101'B for emergency call. |          |
| Field Name                 | Field Value                                                                                         | 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>Comments:</b>           | A CHANNEL REQUEST message containing establishment cause = 100, 0010, 0011, 0001 |          |
| Field Name                 | Field Value                                                                      | 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>Comments:</b>           | To match the received CHANNEL REQUEST message with establishment cause = '0000'B. |          |
| Field Name                 | Field Value                                                                       | Comments |
| ecau_rrf                   | '0000?????'B                                                                      |          |
| <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>Comments:</b>           | To match the received CHANNEL REQUEST message with establishment cause = '111'B or '101'B --- initiate outgoing call |          |
| Field Name                 | Field Value                                                                                                          | 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>Comments:</b>           | CLASSMARK CHANGE message containing classmark2 indicating original rf power class |          |
| Field Name                 | Field Value                                                                       | Comments |
| ski                        | '0000'B                                                                           |          |
| rrpd                       | '0110'B                                                                           |          |
| mt                         | '00010110'B                                                                       |          |
| msclm                      | ClassMark2                                                                        |          |
| msclm_adi                  | OMIT                                                                              |          |
| <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>Comments:</b>           | CLASSMARK CHANGE message containing classmark2 indicating new rf power class due to addition of power amplification |          |
| Field Name                 | Field Value                                                                                                         | Comments |
| msclm                      | ClassMark2Amp                                                                                                       |          |
| <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>Comments:</b>           | CLASSMARK CHANGE message containing classmark2 indicating original rf power class and possible classmark3. |          |
| Field Name                 | Field Value                                                                                                | Comments |
| msclm                      | ClassMark2                                                                                                 |          |
| 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>Comments:</b>           |                 |          |
| Field Name                 | Field Value     | Comments |
| ski                        | '0000'B         |          |
| rrpd                       | '0110'B         |          |
| mt                         | '00010011'B     |          |
| <b>Detailed Comments:</b>  |                 |          |

| PDU Constraint Declaration |                                 |          |
|----------------------------|---------------------------------|----------|
| <b>Constraint Name:</b>    | CMReEstReq_02(mi: MI; lai: LAI) |          |
| <b>PDU Type:</b>           | CMRE_RQ_PDU                     |          |
| <b>Derivation Path:</b>    |                                 |          |
| <b>Comments:</b>           |                                 |          |
| Field Name                 | Field Value                     | Comments |
| ski                        | '0000'B                         |          |
| mmpd                       | '0101'B                         |          |
| mt                         | '0?101000'B                     |          |
| shoct                      | '0000'B                         |          |
| cphksn                     | CphKeySN_01                     |          |
| msclm                      | ClassMark2                      |          |
| mi                         | mi                              |          |
| lai                        | lai                             |          |
| <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>Comments:</b>           | a CM SERVICE ACCEPT message |          |
| Field Name                 | Field Value                 | Comments |
| ski                        | '0000'B                     |          |
| mmpd                       | '0101'B                     |          |
| mt                         | '00100001'B                 |          |
| <b>Detailed Comments:</b>  |                             |          |

| PDU Constraint Declaration |                                                               |          |
|----------------------------|---------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | CMServiceRej_01                                               |          |
| <b>PDU Type:</b>           | CMS_REJ_PDU                                                   |          |
| <b>Derivation Path:</b>    |                                                               |          |
| <b>Comments:</b>           | reject cause = 'service or option not available, unspecified" |          |
| Field Name                 | Field Value                                                   | Comments |
| ski                        | '0000'B                                                       |          |
| mmpd                       | '0101'B                                                       |          |
| mt                         | '00100010'B                                                   |          |
| mmcau                      | '20'O                                                         |          |
| <b>Detailed Comments:</b>  |                                                               |          |

| PDU Constraint Declaration |                                    |          |
|----------------------------|------------------------------------|----------|
| <b>Constraint Name:</b>    | CMServiceRej_02                    |          |
| <b>PDU Type:</b>           | CMS_REJ_PDU                        |          |
| <b>Derivation Path:</b>    |                                    |          |
| <b>Comments:</b>           | reject cause = "IMEI not accepted" |          |
| Field Name                 | Field Value                        | Comments |
| ski                        | '0000'B                            |          |
| mmpd                       | '0101'B                            |          |
| mt                         | '00100010'B                        |          |
| mmcau                      | '05'O                              |          |
| <b>Detailed Comments:</b>  |                                    |          |



| PDU Constraint Declaration |                                               |          |
|----------------------------|-----------------------------------------------|----------|
| <b>Constraint Name:</b>    | CMServiceRej_03                               |          |
| <b>PDU Type:</b>           | CMS_REJ_PDU                                   |          |
| <b>Derivation Path:</b>    |                                               |          |
| <b>Comments:</b>           | reject cause = "Service Option not supported" |          |
| Field Name                 | Field Value                                   | Comments |
| ski                        | '0000'B                                       |          |
| mmpd                       | '0101'B                                       |          |
| mt                         | '00100010'B                                   |          |
| mmcau                      | '20'O                                         |          |
| <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>Comments:</b>           | reject cause = 'network failure' |          |
| Field Name                 | Field Value                      | Comments |
| ski                        | '0000'B                          |          |
| mmpd                       | '0101'B                          |          |
| mt                         | '00100010'B                      |          |
| mmcau                      | '11'O                            |          |
| <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>Comments:</b>           | reject cause = 'service or option not available, unspecified' |          |
| Field Name                 | Field Value                                                   | Comments |
| ski                        | '0000'B                                                       |          |
| mmpd                       | '0101'B                                                       |          |
| mt                         | '00100010'B                                                   |          |
| 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>Comments:</b>           | To match any received CM SERVICE REQUEST message |          |
| Field Name                 | Field Value                                      | 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>Comments:</b>           | To match a received CM SERVICE REQUEST message containing mobile station classmark 2 indicating new RF power capability. |          |
| Field Name                 | Field Value                                                                                                              | Comments |
| msclm                      | ClassMark2Amp                                                                                                            |          |
| <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>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                                                                                                                                                                                     | 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>Comments:</b>           | To match any received CM SERVICE REQUEST message for emergency call with IMEI. |          |
| Field Name                 | Field Value                                                                    | Comments |
| ski                        | '0000'B                                                                        |          |
| 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                                                                                 |          |
| <b>PDU Type:</b>           | CMS_RQ_PDU                                                                                      |          |
| <b>Derivation Path:</b>    | CMServiceReq_01.                                                                                |          |
| <b>Comments:</b>           | To match any received CM SERVICE REQUEST message for emergency call with TMSI and correct CKSN. |          |
| Field Name                 | Field Value                                                                                     | Comments |
| cphksn                     | CphKeySN_01                                                                                     |          |
| svtype                     | C_CMServiceTypeE                                                                                |          |
| 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>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                                                                                                              | Comments |
| cphksn                     | CphKeySN_06                                                                                                              |          |
| svtype                     | C_CMServiceTypeE                                                                                                         |          |
| msclm                      | ClassMark2                                                                                                               |          |
| 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>Comments:</b>           | To match the received CM SERVICE REQUEST message indicating " supplementary service activation" |          |
| Field Name                 | Field Value                                                                                     | 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>Comments:</b>           | To match the received CM SERVICE REQUEST message indicating " short message transfer" |          |
| Field Name                 | Field Value                                                                           | Comments |
| svtype                     | '0100'B                                                                               |          |
| <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>Comments:</b>           | To match any received CM SERVICE REQUEST message |          |
| Field Name                 | Field Value                                      | 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>Comments:</b>           | To match any received CM SERVICE REQUEST message     |          |
| Field Name                 | Field Value                                          | 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>Comments:</b>           | To match any received CM SERVICE REQUEST message     |          |
| Field Name                 | Field Value                                          | 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>Comments:</b>           | CC CONNECT message matching any received value |          |
| Field Name                 | Field Value                                    | Comments |
| ti                         | ti                                             |          |
| ccpd                       | '0011'B                                        |          |
| mt                         | '0?000111'B                                    |          |
| fie                        | *                                              |          |
| pi                         | OMIT                                           |          |
| cnn                        | OMIT                                           |          |
| cns                        | *                                              |          |
| uu                         | *                                              |          |
| ssvi                       | *                                              |          |
| <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>Comments:</b>           | CC CONNECT message containing mandatory IE's only. |          |
| Field Name                 | Field Value                                        | Comments |
| ti                         | Ti                                                 |          |
| ccpd                       | '0011'B                                            |          |
| mt                         | '00000111'B                                        |          |
| fi                         | OMIT                                               |          |
| pi                         | OMIT                                               |          |
| cnn                        | OMIT                                               |          |
| cns                        | OMIT                                               |          |
| uu                         | OMIT                                               |          |
| ssvi                       | OMIT                                               |          |
| <b>Detailed Comments:</b>  |                                                    |          |

| PDU Constraint Declaration |                                          |          |
|----------------------------|------------------------------------------|----------|
| <b>Constraint Name:</b>    | Connect_05(Ti: TI; fi: FIE)              |          |
| <b>PDU Type:</b>           | CONN_PDU                                 |          |
| <b>Derivation Path:</b>    |                                          |          |
| <b>Comments:</b>           | CC CONNECT message containing facile IE. |          |
| Field Name                 | Field Value                              | Comments |
| ti                         | Ti                                       |          |
| ccpd                       | '0011'B                                  |          |
| mt                         | '00000111'B                              |          |
| fi                         | fi                                       |          |
| pi                         | OMIT                                     |          |
| cnn                        | OMIT                                     |          |
| cns                        | OMIT                                     |          |
| uu                         | OMIT                                     |          |
| ssvi                       | OMIT                                     |          |
| <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>Comments:</b>           | An invalid CONNECT message containing an optional IE coded as comprehension required. |          |
| Field Name                 | Field Value                                                                           | Comments |
| ti                         | Ti                                                                                    |          |
| ccpd                       | '0011'B                                                                               |          |
| mt                         | '00000111'B                                                                           |          |
| unknown                    | UnknownIE_01                                                                          |          |
| <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>Comments:</b>           | A CONNECT ACKNOWLEDGE message n -> ms |          |
| Field Name                 | Field Value                           | Comments |
| ti                         | ti                                    |          |
| ccpd                       | '0011'B                               |          |
| mt                         | '00001111'B                           |          |
| <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>Comments:</b>           | A CONNECT ACKNOWLEDGE message |          |
| Field Name                 | Field Value                   | Comments |
| ti                         | Ti                            |          |
| ccpd                       | '0011'B                       |          |
| mt                         | '0?001111'B                   |          |
| <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>Comments:</b>           | CIPHERING MODE COMMAND message, the ciphering algorithm is specified by PIXIT. |          |
| Field Name                 | Field Value                                                                    | Comments |
| ski                        | '0000'B                                                                        |          |
| 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>Comments:</b>           | CIPHERING MODE COMMAND message with no ciphering. |          |
| Field Name                 | Field Value                                       | Comments |
| cphms                      | CphMod_02                                         |          |
| <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>Comments:</b>           | CIPHERING MODE COMMAND message with no ciphering and IMEI included, the ciphering algorithm is specified by PIXIT. |          |
| Field Name                 | Field Value                                                                                                        | Comments |
| cph_res                    | CiphRes_02                                                                                                         |          |
| cphms                      | CphMod_02                                                                                                          |          |
| <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>Comments:</b>           | Invalid CIPHERING MODE COMMAND message with mandatory IE's missing |          |
| Field Name                 | Field Value                                                        | Comments |
| cph_res                    | OMIT                                                               |          |
| cphms                      | OMIT                                                               |          |
| <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>Comments:</b>           | CIPHERING MODE COMMAND message containing incorrect skip identifier |          |
| Field Name                 | Field Value                                                         | Comments |
| ski                        | '0011'B                                                             |          |
| <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>Comments:</b>           | CIPHERING MODE COMMAND message containing unknown IE |          |
| Field Name                 | Field Value                                          | Comments |
| ski                        | '0000'B                                              |          |
| 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>Comments:</b>           | To match any received CIPHERING MODE COMPLETE message |          |
| Field Name                 | Field Value                                           | Comments |
| ski                        | '0000'B                                               |          |
| rrpd                       | '0110'B                                               |          |
| mt                         | '00110010'B                                           |          |
| mei                        | *                                                     |          |
| <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>Comments:</b>           | To match a received CIPHERING MODE COMPLETE message without IMEI. |          |
| Field Name                 | Field Value                                                       | Comments |
| mei                        | OMIT                                                              |          |
| <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>Comments:</b>           | To match a received CIPHERING MODE COMPLETE message containing IMEI. |          |
| Field Name                 | Field Value                                                          | Comments |
| ski                        | '0000'B                                                              |          |
| rrpd                       | '0110'B                                                              |          |
| mt                         | '00110010'B                                                          |          |
| mei                        | Milmeisv_01iei                                                       |          |
| <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>Comments:</b>           | A DISCONNECT message that contains cause = normal clearing and progress indicator = #8. |          |
| Field Name                 | Field Value                                                                             | Comments |
| ti                         | Ti                                                                                      |          |
| ccpd                       | '0011'B                                                                                 |          |
| mt                         | '00100101'B                                                                             |          |
| cau                        | cau                                                                                     |          |
| fie                        | OMIT                                                                                    |          |
| pi                         | progind                                                                                 |          |
| uu                         | uuinf                                                                                   |          |
| ssvi                       | OMIT                                                                                    |          |
| <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>Comments:</b>           | A default DISCONNECT message matching parametrized value ms -> n. |          |
| Field Name                 | Field Value                                                       | 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>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                                                                                                                                               | Comments |
| ti                         | Ti                                                                                                                                                        |          |
| ccpd                       | '0011'B                                                                                                                                                   |          |
| mt                         | '0?100101'B                                                                                                                                               |          |
| cau                        | Cause_Def                                                                                                                                                 |          |
| fi                         | 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>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                                                                                                                | Comments |
| ti                         | ti                                                                                                                         |          |
| ccpd                       | '0011'B                                                                                                                    |          |
| mt                         | '00100101'B                                                                                                                |          |
| cau                        | Cause_01                                                                                                                   |          |
| fi                         | OMIT                                                                                                                       |          |
| pi                         | OMIT                                                                                                                       |          |
| uu                         | OMIT                                                                                                                       |          |
| ssvi                       | OMIT                                                                                                                       |          |
| <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>Comments:</b>           | A DISCONNECT message in which the mandatory IE cause is missing. (N -> MS) |          |
| Field Name                 | Field Value                                                                | Comments |
| ti                         | ti                                                                         |          |
| ccpd                       | '0011'B                                                                    |          |
| mt                         | '00100101'B                                                                |          |
| cau                        | OMIT                                                                       |          |
| fi                         | OMIT                                                                       |          |
| pi                         | OMIT                                                                       |          |
| uu                         | OMIT                                                                       |          |
| ssvi                       | OMIT                                                                       |          |
| <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>Comments:</b>           | An invalid DISCONNECT message which contains optional unknown IEI |          |
| Field Name                 | Field Value                                                       | Comments |
| ti                         | ti                                                                |          |
| ccpd                       | '0011'B                                                           |          |
| mt                         | '00100101'B                                                       |          |
| cau                        | Cause_01                                                          |          |
| 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>Comments:</b>           | An invalid DISCONNECT message containing arbitrary spare bits |          |
| Field Name                 | Field Value                                                   | Comments |
| ti                         | ti                                                            |          |
| ccpd                       | '0011'B                                                       |          |
| mt                         | '00100101'B                                                   |          |
| cau                        | Cause_06                                                      |          |
| fie                        | OMIT                                                          |          |
| pi                         | ProgInd_01                                                    |          |
| uu                         | OMIT                                                          |          |
| ssvi                       | OMIT                                                          |          |
| <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>Comments:</b>           | FACILITY message, call dependent, used in TC_11_3, containing any facility information element ms->n. |          |
| Field Name                 | Field Value                                                                                           | Comments |
| ti                         | Ti                                                                                                    |          |
| cc_sspd                    | '0011'B                                                                                               |          |
| mt                         | '0?111010'B                                                                                           |          |
| fie                        | ?                                                                                                     |          |
| ssvi                       | *                                                                                                     |          |
| <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>Comments:</b>           | FACILITY message, call dependent, n -> ms |          |
| Field Name                 | Field Value                               | Comments |
| ti                         | Ti                                        |          |
| cc_sspd                    | '0011'B                                   |          |
| mt                         | '00111010'B                               |          |
| fie                        | fie                                       |          |
| ssvi                       | OMIT                                      |          |
| <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>Comments:</b>           | FACILITY message, call independent, n -> ms |          |
| Field Name                 | Field Value                                 | Comments |
| ti                         | Ti                                          |          |
| cc_sspd                    | '1011'B                                     |          |
| mt                         | '00111010'B                                 |          |
| fie                        | fie                                         |          |
| ssvi                       | OMIT                                        |          |
| <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>Comments:</b>           | FACILITY message, call dependent ms -> n |          |
| Field Name                 | Field Value                              | Comments |
| ti                         | Ti                                       |          |
| cc_sspd                    | '0011'B                                  |          |
| mt                         | '0?111010'B                              |          |
| fie                        | fie                                      |          |
| ssvi                       | *                                        |          |
| <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>Comments:</b>           | FACILITY message, call independent ms -> n |          |
| Field Name                 | Field Value                                | Comments |
| ti                         | Ti                                         |          |
| cc_sspd                    | '1011'B                                    |          |
| mt                         | '0?111010'B                                |          |
| fie                        | fie                                        |          |
| ssvi                       | *                                          |          |
| <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>Comments:</b>           |                                                        |          |
| Field Name                 | Field Value                                            | Comments |
| ski                        | '0000'B                                                |          |
| rrpd                       | '0110'B                                                |          |
| mt                         | '00010100'B                                            |          |
| 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>Comments:</b>           | Frequency Redefinition                                                                                                       |          |
| Field Name                 | Field Value                                                                                                                  | Comments |
| ski                        | '0000'B                                                                                                                      |          |
| rrpd                       | '0110'B                                                                                                                      |          |
| mt                         | '00010100'B                                                                                                                  |          |
| 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>Comments:</b>           | Frequency Redefinition                                                                                   |          |
| Field Name                 | Field Value                                                                                              | Comments |
| ski                        | '0000'B                                                                                                  |          |
| rrpd                       | '0110'B                                                                                                  |          |
| mt                         | '00010100'B                                                                                              |          |
| 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                       | OMIT                                                                                                     |          |
| <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>Comments:</b>           | Frequency Redefinition                                                                                                                            |          |
| Field Name                 | Field Value                                                                                                                                       | Comments |
| ski                        | '0000'B                                                                                                                                           |          |
| rrpd                       | '0110'B                                                                                                                                           |          |
| mt                         | '00010100'B                                                                                                                                       |          |
| 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>Comments:</b>           | To match any received HANDOVER ACCESS message |          |
| Field Name                 | Field Value                                   | Comments |
| horf                       | ?                                             |          |
| <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>Comments:</b>           | To match a received HANDOVER ACCESS message with handover reference ' horef'. |          |
| Field Name                 | Field Value                                                                   | Comments |
| horf                       | horef                                                                         |          |
| <b>Detailed Comments:</b>  |                                                                               |          |

| PDU Constraint Declaration |                                                                                                                                                                |          |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd(type: CH_TDMA; slot: SN; tsc: TSC; sdccharfcn, tcharfcn: INTEGER; horf: HORF; pwlv: INTEGER; rot: B_1; si: B_2; rtdif: TDIF; ta: TA; cphms: CPHMS) |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                                                                                     |          |
| <b>Derivation Path:</b>    |                                                                                                                                                                |          |
| <b>Comments:</b>           | An HANDOVER COMMAND indicating finely synchronised intra cell handover.                                                                                        |          |
| Field Name                 | Field Value                                                                                                                                                    | Comments |
| ski                        | '0000'B                                                                                                                                                        |          |
| rrpd                       | '0110'B                                                                                                                                                        |          |
| mt                         | '00101011'B                                                                                                                                                    |          |
| cd                         | CellDescrp(1, 5, sdccharfcn)                                                                                                                                   |          |
| ch1d_at                    | ChDescrp_nfh(type, slot, tsc, tcharfcn)                                                                                                                        |          |
| horf                       | horf                                                                                                                                                           |          |
| pcmd                       | Pcmd_19(INT_TO_BIT(pwlv, 5))                                                                                                                                   |          |
| synchi                     | Synchi(rot, si)                                                                                                                                                |          |
| frqsl_at                   | OMIT                                                                                                                                                           |          |
| frql_at                    | OMIT                                                                                                                                                           |          |
| cchd                       | OMIT                                                                                                                                                           |          |
| ch1mod                     | OMIT                                                                                                                                                           |          |
| ch2d_at                    | OMIT                                                                                                                                                           |          |
| ch2mod                     | OMIT                                                                                                                                                           |          |
| frqchs_at                  | OMIT                                                                                                                                                           |          |
| ma_at                      | OMIT                                                                                                                                                           |          |
| strt                       | OMIT                                                                                                                                                           |          |
| rtdif                      | rtdif                                                                                                                                                          |          |
| ta                         | ta                                                                                                                                                             |          |
| frqsl_bt                   | OMIT                                                                                                                                                           |          |
| frql_bt                    | OMIT                                                                                                                                                           |          |
| ch1d_bt                    | OMIT                                                                                                                                                           |          |
| ch2d_bt                    | OMIT                                                                                                                                                           |          |
| frqchs_bt                  | OMIT                                                                                                                                                           |          |
| ma_bt                      | OMIT                                                                                                                                                           |          |
| cphms                      | cphms                                                                                                                                                          |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                |          |

| PDU Constraint Declaration |                                                                                                                                           |          |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_1(ho_ref: HORF;slot: BITSTRING; bcch_arfcn: INTEGER; tch_arfcn: INTEGER; pow: BITSTRING; tsc: TSC; chtype: B_5; chmod: CHMOD) |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                                                                |          |
| <b>Derivation Path:</b>    |                                                                                                                                           |          |
| <b>Comments:</b>           | A HANDOVER COMMAND containing TCH_NonFH for non synchronized handover with channel mode IE.                                               |          |
| Field Name                 | Field Value                                                                                                                               | Comments |
| ski                        | '0000'B                                                                                                                                   |          |
| rrpd                       | '0110'B                                                                                                                                   |          |
| mt                         | '00101011'B                                                                                                                               |          |
| cd                         | CellDescrp(1, 5, bcch_arfcn)                                                                                                              |          |
| ch1d_at                    | ChDescrp_nfh(chtype, slot, tsc, tch_arfcn)                                                                                                |          |
| horf                       | ho_ref                                                                                                                                    |          |
| pcmd                       | Pcmd_20(pow)                                                                                                                              |          |
| synchi                     | Synchi(C_not_report_otd, C_non_synchronized)                                                                                              |          |
| frqsl_at                   | OMIT                                                                                                                                      |          |
| frql_at                    | OMIT                                                                                                                                      |          |
| cchd                       | OMIT                                                                                                                                      |          |
| ch1mod                     | chmod                                                                                                                                     |          |
| ch2d_at                    | OMIT                                                                                                                                      |          |
| ch2mod                     | OMIT                                                                                                                                      |          |
| frqchs_at                  | OMIT                                                                                                                                      |          |
| ma_at                      | OMIT                                                                                                                                      |          |
| strt                       | OMIT                                                                                                                                      |          |
| rtdif                      | OMIT                                                                                                                                      |          |
| ta                         | OMIT                                                                                                                                      |          |
| frqsl_bt                   | OMIT                                                                                                                                      |          |
| frql_bt                    | OMIT                                                                                                                                      |          |
| ch1d_bt                    | OMIT                                                                                                                                      |          |
| ch2d_bt                    | OMIT                                                                                                                                      |          |
| frqchs_bt                  | OMIT                                                                                                                                      |          |
| ma_bt                      | OMIT                                                                                                                                      |          |
| cphms                      | OMIT                                                                                                                                      |          |
| <b>Detailed Comments:</b>  |                                                                                                                                           |          |

| PDU Constraint Declaration |                                                                                                                             |          |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_2(ho_ref: HORF;slot: BITSTRING; bcch_arfcn: INTEGER; tch_arfcn: INTEGER; pow: BITSTRING; tsc: TSC; chtype: B_5) |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                                                  |          |
| <b>Derivation Path:</b>    |                                                                                                                             |          |
| <b>Comments:</b>           | A HANOVER COMMAND containing TCH_NonFH for non synchronized handover.                                                       |          |
| Field Name                 | Field Value                                                                                                                 | Comments |
| ski                        | '0000'B                                                                                                                     |          |
| rrpd                       | '0110'B                                                                                                                     |          |
| mt                         | '00101011'B                                                                                                                 |          |
| cd                         | CellDescrp(1, 5, bcch_arfcn)                                                                                                |          |
| ch1d_at                    | ChDescrp_nfh(chtype, slot, tsc, tch_arfcn)                                                                                  |          |
| horf                       | ho_ref                                                                                                                      |          |
| pcmd                       | Pcmd_20(pow)                                                                                                                |          |
| synchi                     | Synchi(C_not_report_otd, C_non_synchronized)                                                                                |          |
| frqsl_at                   | OMIT                                                                                                                        |          |
| frql_at                    | OMIT                                                                                                                        |          |
| cchd                       | OMIT                                                                                                                        |          |
| ch1mod                     | OMIT                                                                                                                        |          |
| ch2d_at                    | OMIT                                                                                                                        |          |
| ch2mod                     | OMIT                                                                                                                        |          |
| frqchs_at                  | OMIT                                                                                                                        |          |
| ma_at                      | OMIT                                                                                                                        |          |
| strt                       | OMIT                                                                                                                        |          |
| rtdif                      | OMIT                                                                                                                        |          |
| ta                         | OMIT                                                                                                                        |          |
| frqsl_bt                   | OMIT                                                                                                                        |          |
| frql_bt                    | OMIT                                                                                                                        |          |
| ch1d_bt                    | OMIT                                                                                                                        |          |
| ch2d_bt                    | OMIT                                                                                                                        |          |
| frqchs_bt                  | OMIT                                                                                                                        |          |
| ma_bt                      | OMIT                                                                                                                        |          |
| cphms                      | OMIT                                                                                                                        |          |
| <b>Detailed Comments:</b>  |                                                                                                                             |          |

| PDU Constraint Declaration |                                                                                                                             |          |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_3(ho_ref: HORF;slot: BITSTRING; bcch_arfcn: INTEGER; tch_arfcn: INTEGER; pow: BITSTRING; tsc: TSC; chtype: B_5) |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                                                  |          |
| <b>Derivation Path:</b>    | HandOverCmd_2.                                                                                                              |          |
| <b>Comments:</b>           | A HANOVER COMMAND containing TCH_NonFH for non synchronized handover.                                                       |          |
| Field Name                 | Field Value                                                                                                                 | Comments |
| cd                         | CellDescrp(1, 5, bcch_arfcn)                                                                                                |          |
| ch1d_at                    | ChDescrp_nfh(chtype, slot, tsc, tch_arfcn)                                                                                  |          |
| horf                       | ho_ref                                                                                                                      |          |
| pcmd                       | Pcmd_20(pow)                                                                                                                |          |
| synchi                     | OMIT                                                                                                                        |          |
| <b>Detailed Comments:</b>  |                                                                                                                             |          |

| PDU Constraint Declaration |                                                                                                                   |          |
|----------------------------|-------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_21_B(ho_ref: HORF;ts_ccch: BITSTRING; par_arfcn: INTEGER; pow: BITSTRING; ta: TA; bccharfcn: INTEGER) |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                                        |          |
| <b>Derivation Path:</b>    |                                                                                                                   |          |
| <b>Comments:</b>           | A HANDOVER COMMAND containing TCH/F_NonFH in non synchronized new CELL B.                                         |          |
| Field Name                 | Field Value                                                                                                       | Comments |
| ski                        | '0000'B                                                                                                           |          |
| rrpd                       | '0110'B                                                                                                           |          |
| mt                         | '00101011'B                                                                                                       |          |
| cd                         | CellDescrp(3, 0, bccharfcn)                                                                                       |          |
| ch1d_at                    | ChDescrp_nfh('00001'B, ts_ccch, TSPX_TscC, par_arfcn)                                                             |          |
| horf                       | ho_ref                                                                                                            |          |
| pcmd                       | Pcmd_20(pow)                                                                                                      |          |
| synchi                     | OMIT                                                                                                              |          |
| frqsl_at                   | OMIT                                                                                                              |          |
| frql_at                    | OMIT                                                                                                              |          |
| cchd                       | OMIT                                                                                                              |          |
| ch1mod                     | OMIT                                                                                                              |          |
| ch2d_at                    | OMIT                                                                                                              |          |
| ch2mod                     | OMIT                                                                                                              |          |
| frqchs_at                  | OMIT                                                                                                              |          |
| ma_at                      | OMIT                                                                                                              |          |
| strt                       | OMIT                                                                                                              |          |
| rtdif                      | OMIT                                                                                                              |          |
| ta                         | ta                                                                                                                |          |
| frqsl_bt                   | OMIT                                                                                                              |          |
| frql_bt                    | OMIT                                                                                                              |          |
| ch1d_bt                    | OMIT                                                                                                              |          |
| ch2d_bt                    | OMIT                                                                                                              |          |
| frqchs_bt                  | OMIT                                                                                                              |          |
| ma_bt                      | OMIT                                                                                                              |          |
| cphms                      | OMIT                                                                                                              |          |
| <b>Detailed Comments:</b>  |                                                                                                                   |          |



| PDU Constraint Declaration |                                                                                                   |          |
|----------------------------|---------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_22(ho_ref: HORF;ts_ccch: BITSTRING; pow: BITSTRING; tsc: TSC)                         |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                        |          |
| <b>Derivation Path:</b>    |                                                                                                   |          |
| <b>Comments:</b>           | A derived HANOVER COMMAND containing TCH/F_FH in non synchronized new CELL A.                     |          |
| Field Name                 | Field Value                                                                                       | Comments |
| ski                        | '0000'B                                                                                           |          |
| rrpd                       | '0110'B                                                                                           |          |
| mt                         | '00101011'B                                                                                       |          |
| cd                         | CellDescrp(1, 5, C_arfcnA)                                                                        |          |
| ch1d_at                    | ChDescrp_tchf_fh( ts_ccch, tsc,<br>INT_TO_BIT((TSPX_MAIO MOD 12), 6),<br>INT_TO_BIT(TSPX_HSN, 6)) |          |
| horf                       | ho_ref                                                                                            |          |
| pcmd                       | Pcmd_20(pow)                                                                                      |          |
| synchi                     | OMIT                                                                                              |          |
| frqsl_at                   | OMIT                                                                                              |          |
| frql_at                    | OMIT                                                                                              |          |
| cchd                       | OMIT                                                                                              |          |
| ch1mod                     | OMIT                                                                                              |          |
| ch2d_at                    | OMIT                                                                                              |          |
| ch2mod                     | OMIT                                                                                              |          |
| frqchs_at                  | Freqchseq_22                                                                                      |          |
| ma_at                      | OMIT                                                                                              |          |
| strt                       | OMIT                                                                                              |          |
| rtdif                      | OMIT                                                                                              |          |
| ta                         | OMIT                                                                                              |          |
| frqsl_bt                   | OMIT                                                                                              |          |
| frql_bt                    | OMIT                                                                                              |          |
| ch1d_bt                    | OMIT                                                                                              |          |
| ch2d_bt                    | OMIT                                                                                              |          |
| frqchs_bt                  | OMIT                                                                                              |          |
| ma_bt                      | OMIT                                                                                              |          |
| cphms                      | OMIT                                                                                              |          |
| <b>Detailed Comments:</b>  |                                                                                                   |          |

| PDU Constraint Declaration |                                                                                                  |          |
|----------------------------|--------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_22d(ho_ref: HORF;ts_ccch: BITSTRING; pow: BITSTRING; tsc: TSC)                       |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                       |          |
| <b>Derivation Path:</b>    | HandOverCmd_22.                                                                                  |          |
| <b>Comments:</b>           | A derived HANOVER COMMAND containing TCH/F_FH in non synchronized new CELL A.                    |          |
| Field Name                 | Field Value                                                                                      | Comments |
| cd                         | CellDescrp(1, 5, C_arfcnAd_4)                                                                    |          |
| ch1d_at                    | ChDescrp_tchf_fh( ts_ccch, tsc,<br>INT_TO_BIT((TSPX_MAIO MOD 9), 6),<br>INT_TO_BIT(TSPX_HSN, 6)) |          |
| horf                       | ho_ref                                                                                           |          |
| pcmd                       | Pcmd_20(pow)                                                                                     |          |
| frqsl_at                   | Frql_20_Ad                                                                                       |          |
| frqchs_at                  | OMIT                                                                                             |          |
| <b>Detailed Comments:</b>  |                                                                                                  |          |

| PDU Constraint Declaration |                                                                                               |          |
|----------------------------|-----------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_22_B1(ho_ref: HORF;slot: BITSTRING; pow: BITSTRING; ta: TA; chmod: CHMOD)         |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                    |          |
| <b>Derivation Path:</b>    |                                                                                               |          |
| <b>Comments:</b>           | A HANOVER COMMAND containing TCH/F_FH in non synchronized new CELL B.                         |          |
| Field Name                 | Field Value                                                                                   | Comments |
| ski                        | '0000'B                                                                                       |          |
| rrpd                       | '0110'B                                                                                       |          |
| mt                         | '00101011'B                                                                                   |          |
| cd                         | CellDescrp(3, 0, C_BCCHcarrierB_ho)                                                           |          |
| ch1d_at                    | ChDescrp_tchf_fh(slot, TSPX_TscA, INT_TO_BIT((TSPX_MAIO MOD 11), 6), INT_TO_BIT(TSPX_HSN, 6)) |          |
| horf                       | ho_ref                                                                                        |          |
| pcmd                       | Pcmd_20(pow)                                                                                  |          |
| synchi                     | OMIT                                                                                          |          |
| frqsl_at                   | OMIT                                                                                          |          |
| frql_at                    | OMIT                                                                                          |          |
| cchd                       | OMIT                                                                                          |          |
| ch1mod                     | chmod                                                                                         |          |
| ch2d_at                    | OMIT                                                                                          |          |
| ch2mod                     | OMIT                                                                                          |          |
| frqchs_at                  | Freqchseq_06                                                                                  |          |
| ma_at                      | OMIT                                                                                          |          |
| strt                       | OMIT                                                                                          |          |
| rtdif                      | OMIT                                                                                          |          |
| ta                         | ta                                                                                            |          |
| frqsl_bt                   | OMIT                                                                                          |          |
| frql_bt                    | OMIT                                                                                          |          |
| ch1d_bt                    | OMIT                                                                                          |          |
| ch2d_bt                    | OMIT                                                                                          |          |
| frqchs_bt                  | OMIT                                                                                          |          |
| ma_bt                      | OMIT                                                                                          |          |
| cphms                      | OMIT                                                                                          |          |
| <b>Detailed Comments:</b>  |                                                                                               |          |

| PDU Constraint Declaration |                                                                                                |          |
|----------------------------|------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_22_B1d(ho_ref: HORF; slot: BITSTRING; pow: BITSTRING; ta: TA; chmod: CHMOD)        |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                     |          |
| <b>Derivation Path:</b>    | HandOverCmd_22_B1.                                                                             |          |
| <b>Comments:</b>           | A derived HANOVER COMMAND containing TCH/F_FH in non synchronized new CELL B.                  |          |
| Field Name                 | Field Value                                                                                    | Comments |
| cd                         | CellDescrp(3, 0, C_BCCHcarrierB_hod)                                                           |          |
| ch1d_at                    | ChDescrp_tchf_fh( slot, TSPX_TscA, INT_TO_BIT((TSPX_MAIO MOD 15), 6), INT_TO_BIT(TSPX_HSN, 6)) |          |
| horf                       | ho_ref                                                                                         |          |
| pcmd                       | Pcmd_20(pow)                                                                                   |          |
| synchi                     | OMIT                                                                                           |          |
| frqsl_at                   | Frql_20_B5d                                                                                    |          |
| ch1mod                     | chmod                                                                                          |          |
| frqchs_at                  | OMIT                                                                                           |          |
| strt                       | OMIT                                                                                           |          |
| ta                         | ta                                                                                             |          |
| <b>Detailed Comments:</b>  |                                                                                                |          |

| PDU Constraint Declaration |                                                                                                                                                                     |          |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_22_B1e(ho_ref: HORF;ts_ccch: BITSTRING; pow: BITSTRING; par_chtype: CH_TDMA; par_flist: OCTETSTRING; par_flistl: OCTETSTRING; chmod: CHMOD; n: INTEGER) |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                                                                                          |          |
| <b>Derivation Path:</b>    |                                                                                                                                                                     |          |
| <b>Comments:</b>           | A derived HANOVER COMMAND containing TCH/F_FH in non synchronized new CELL B, specified for EGSM.                                                                   |          |
| Field Name                 | Field Value                                                                                                                                                         | Comments |
| ski                        | '0000'B                                                                                                                                                             |          |
| rrpd                       | '0110'B                                                                                                                                                             |          |
| mt                         | '00101011'B                                                                                                                                                         |          |
| cd                         | CellDescrp(1, 3, C_BCCHcarrierB_ho)                                                                                                                                 |          |
| ch1d_at                    | ChDescrp_fh(par_chtype, ts_ccch, TSPX_TscDef, INT_TO_BIT((TSPX_MAIO MOD n), 6), INT_TO_BIT(TSPX_HSN, 6))                                                            |          |
| horf                       | ho_ref                                                                                                                                                              |          |
| pcmd                       | Pcmd_20(pow)                                                                                                                                                        |          |
| synchi                     | OMIT                                                                                                                                                                |          |
| frqsl_at                   | Frql_20_egsm(par_flist, par_flistl)                                                                                                                                 |          |
| frql_at                    | OMIT                                                                                                                                                                |          |
| cchd                       | OMIT                                                                                                                                                                |          |
| ch1mod                     | chmod                                                                                                                                                               |          |
| ch2d_at                    | OMIT                                                                                                                                                                |          |
| ch2mod                     | OMIT                                                                                                                                                                |          |
| frqchs_at                  | OMIT                                                                                                                                                                |          |
| ma_at                      | OMIT                                                                                                                                                                |          |
| strt                       | OMIT                                                                                                                                                                |          |
| rtdif                      | OMIT                                                                                                                                                                |          |
| ta                         | OMIT                                                                                                                                                                |          |
| frqsl_bt                   | OMIT                                                                                                                                                                |          |
| frql_bt                    | OMIT                                                                                                                                                                |          |
| ch1d_bt                    | OMIT                                                                                                                                                                |          |
| ch2d_bt                    | OMIT                                                                                                                                                                |          |
| frqchs_bt                  | OMIT                                                                                                                                                                |          |
| ma_bt                      | OMIT                                                                                                                                                                |          |
| cphms                      | OMIT                                                                                                                                                                |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                     |          |

| PDU Constraint Declaration |                                                                                           |          |
|----------------------------|-------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_22_B2(ho_ref: HORF;ts_ccch: BITSTRING; pow: BITSTRING; tsc: TSC)              |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                |          |
| <b>Derivation Path:</b>    | HandOverCmd_22.                                                                           |          |
| <b>Comments:</b>           | A derived HANOVER COMMAND containing TCH/F_FH in non synchronized new CELL B.             |          |
| Field Name                 | Field Value                                                                               | Comments |
| cd                         | CellDescrp(3, 0, C_BCCHcarrierB_ho)                                                       |          |
| ch1d_at                    | ChDescrp_tch_fh( ts_ccch, tsc, INT_TO_BIT((TSPX_MAIO MOD 5), 6), INT_TO_BIT(TSPX_HSN, 6)) |          |
| horf                       | ho_ref                                                                                    |          |
| pcmd                       | Pcmd_20(pow)                                                                              |          |
| synchi                     | OMIT                                                                                      |          |
| cchd                       | CellChDes_20_B                                                                            |          |
| ch1mod                     | ChMod_sign_iei                                                                            |          |
| frqchs_at                  | OMIT                                                                                      |          |
| ma_at                      | MobAllic_20_B1iei                                                                         |          |
| strt                       | OMIT                                                                                      |          |
| <b>Detailed Comments:</b>  |                                                                                           |          |

| PDU Constraint Declaration |                                                                                                 |          |
|----------------------------|-------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_22_B2d(ho_ref: HORF;ts_ccch: BITSTRING; pow: BITSTRING; tsc: TSC)                   |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                      |          |
| <b>Derivation Path:</b>    | HandOverCmd_22.                                                                                 |          |
| <b>Comments:</b>           | A derived HANOVER COMMAND containing TCH/F_FH in non synchronized new CELL B.                   |          |
| Field Name                 | Field Value                                                                                     | Comments |
| cd                         | CellDescrp(3, 0, C_BCCHcarrierB_hod)                                                            |          |
| ch1d_at                    | ChDescrp_tch_fh( ts_ccch, tsc,<br>INT_TO_BIT((TSPX_MAIO MOD 9), 6),<br>INT_TO_BIT(TSPX_HSN, 6)) |          |
| horf                       | ho_ref                                                                                          |          |
| pcmd                       | Pcmd_20(pow)                                                                                    |          |
| synchi                     | OMIT                                                                                            |          |
| frql_at                    | Frql_20_B9d                                                                                     |          |
| ch1mod                     | ChMod_sign_iei                                                                                  |          |
| frqchs_at                  | OMIT                                                                                            |          |
| strt                       | OMIT                                                                                            |          |
| <b>Detailed Comments:</b>  |                                                                                                 |          |

| PDU Constraint Declaration |                                                                                                     |          |
|----------------------------|-----------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_22_B3(ho_ref: HORF;slot: BITSTRING; pow: BITSTRING; ta: TA; chmod: CHMOD)               |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                          |          |
| <b>Derivation Path:</b>    | HandOverCmd_22_B1.                                                                                  |          |
| <b>Comments:</b>           | A derived HANOVER COMMAND containing TCH/F_FH in non synchronized new CELL B.                       |          |
| Field Name                 | Field Value                                                                                         | Comments |
| ch1d_at                    | ChDescrp_tch_fh( slot, TSPX_TscB,<br>INT_TO_BIT((TSPX_MAIO MOD 16), 6),<br>INT_TO_BIT(TSPX_HSN, 6)) |          |
| horf                       | ho_ref                                                                                              |          |
| pcmd                       | Pcmd_20(pow)                                                                                        |          |
| frql_at                    | Frql_20_B2                                                                                          |          |
| ch1mod                     | chmod                                                                                               |          |
| frqchs_at                  | OMIT                                                                                                |          |
| ta                         | ta                                                                                                  |          |
| <b>Detailed Comments:</b>  |                                                                                                     |          |

| PDU Constraint Declaration |                                                                                                     |          |
|----------------------------|-----------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_22_B3d(ho_ref: HORF;slot: BITSTRING; pow: BITSTRING; ta: TA; chmod: CHMOD)              |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                          |          |
| <b>Derivation Path:</b>    | HandOverCmd_22_B1.                                                                                  |          |
| <b>Comments:</b>           | A derived HANOVER COMMAND containing TCH/F_FH in non synchronized new CELL B.                       |          |
| Field Name                 | Field Value                                                                                         | Comments |
| cd                         | CellDescrp(3, 0, C_BCCHcarrierB_hod)                                                                |          |
| ch1d_at                    | ChDescrp_tch_fh( slot, TSPX_TscB,<br>INT_TO_BIT((TSPX_MAIO MOD 13), 6),<br>INT_TO_BIT(TSPX_HSN, 6)) |          |
| horf                       | ho_ref                                                                                              |          |
| pcmd                       | Pcmd_20(pow)                                                                                        |          |
| cchd                       | CellChDes_20_B0d                                                                                    |          |
| ch1mod                     | chmod                                                                                               |          |
| ma_at                      | MobAllc_22                                                                                          |          |
| ta                         | ta                                                                                                  |          |
| <b>Detailed Comments:</b>  |                                                                                                     |          |

| PDU Constraint Declaration |                                                                                               |          |
|----------------------------|-----------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_22_B4(ho_ref: HORF;slot: BITSTRING; pow: BITSTRING; ta: TA; chmod: CHMOD)         |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                    |          |
| <b>Derivation Path:</b>    | HandOverCmd_22_B1.                                                                            |          |
| <b>Comments:</b>           | A derived HANOVER COMMAND containing TCH/F_FH in non synchronized new CELL B.                 |          |
| Field Name                 | Field Value                                                                                   | Comments |
| ch1d_at                    | ChDescrp_tchf_fh( slot, TSPX_TscB, INT_TO_BIT((TSPX_MAIO MOD 2), 6), INT_TO_BIT(TSPX_HSN, 6)) |          |
| horf                       | ho_ref                                                                                        |          |
| pcmd                       | Pcmd_20(pow)                                                                                  |          |
| ch1mod                     | chmod                                                                                         |          |
| frqchs_at                  | Freqchseq_03                                                                                  |          |
| ta                         | ta                                                                                            |          |
| <b>Detailed Comments:</b>  |                                                                                               |          |

| PDU Constraint Declaration |                                                                                        |          |
|----------------------------|----------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_22_B4d(ho_ref: HORF;slot: BITSTRING; pow: BITSTRING; ta: TA; chmod: CHMOD) |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                             |          |
| <b>Derivation Path:</b>    | HandOverCmd_22_B1.HandOverCmd_22_B1d.                                                  |          |
| <b>Comments:</b>           | A derived HANOVER COMMAND containing TCH/F_FH in non synchronized new CELL B.          |          |
| Field Name                 | Field Value                                                                            | Comments |
| ch1d_at                    | ChDescrp_tchf_fh( slot, TSPX_TscB, INT_TO_BIT((TSPX_MAIO MOD 3), 6), C_HSN_0)          |          |
| horf                       | ho_ref                                                                                 |          |
| pcmd                       | Pcmd_20(pow)                                                                           |          |
| synchi                     | Synchi(C_not_report_otd, C_non_synchronized)                                           |          |
| frqsl_at                   | Frql_20_B10d                                                                           |          |
| ch1mod                     | chmod                                                                                  |          |
| ta                         | ta                                                                                     |          |
| <b>Detailed Comments:</b>  |                                                                                        |          |

| PDU Constraint Declaration |                                                                                              |          |
|----------------------------|----------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_22_B5(ho_ref: HORF;slot: BITSTRING; pow: BITSTRING; ta: TA; chmod: CHMOD)        |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                   |          |
| <b>Derivation Path:</b>    | HandOverCmd_22_B1.                                                                           |          |
| <b>Comments:</b>           | A derived HANOVER COMMAND containing TCH/F_FH in non synchronized new CELL B.                |          |
| Field Name                 | Field Value                                                                                  | Comments |
| cd                         | CellDescrp(1, 5, C_BCCHcarrierB_ho)                                                          |          |
| ch1d_at                    | ChDescrp_tchf_fh(slot, TSPX_TscB, INT_TO_BIT((TSPX_MAIO MOD 4), 6), INT_TO_BIT(TSPX_HSN, 6)) |          |
| horf                       | ho_ref                                                                                       |          |
| pcmd                       | Pcmd_20(pow)                                                                                 |          |
| synchi                     | Synchi(C_not_report_otd, C_synchronized)                                                     |          |
| ch1mod                     | chmod                                                                                        |          |
| frqchs_at                  | Freqchseq_05                                                                                 |          |
| strt                       | OMIT                                                                                         |          |
| ta                         | ta                                                                                           |          |
| <b>Detailed Comments:</b>  |                                                                                              |          |

| PDU Constraint Declaration |                                                                                             |          |
|----------------------------|---------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_22_B5d(ho_ref: HORF;slot: BITSTRING; pow: BITSTRING; ta: TA; chmod: CHMOD)      |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                  |          |
| <b>Derivation Path:</b>    | HandOverCmd_22_B1.                                                                          |          |
| <b>Comments:</b>           | A derived HANOVER COMMAND containing TCH/F_FH in non synchronized new CELL B.               |          |
| Field Name                 | Field Value                                                                                 | Comments |
| cd                         | CellDescrp(1, 5, C_BCCHcarrierB_hod)                                                        |          |
| ch1d_at                    | ChDescrp_tch_fh(slot, TSPX_TscB, INT_TO_BIT((TSPX_MAIO MOD 3), 6), INT_TO_BIT(TSPX_HSN, 6)) |          |
| horf                       | ho_ref                                                                                      |          |
| pcmd                       | Pcmd_20(pow)                                                                                |          |
| synchi                     | Synchi(C_not_report_otd, C_synchronised)                                                    |          |
| frqsl_at                   | Frql_20_B12d                                                                                |          |
| ch1mod                     | chmod                                                                                       |          |
| strt                       | OMIT                                                                                        |          |
| ta                         | ta                                                                                          |          |
| <b>Detailed Comments:</b>  |                                                                                             |          |

| PDU Constraint Declaration |                                                                                          |          |
|----------------------------|------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_24_A1(ho_ref: HORF;ts_ccch: BITSTRING; pow: BITSTRING; tsc: TSC)             |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                               |          |
| <b>Derivation Path:</b>    | HandOverCmd_22.                                                                          |          |
| <b>Comments:</b>           | A derived HANOVER COMMAND containing TCH/H_FH in non synchronized new CELL A.            |          |
| Field Name                 | Field Value                                                                              | Comments |
| ch1d_at                    | ChDescrp_tch_fh(ts_ccch, tsc, TSPX_TCHHSubA, INT_TO_BIT((TSPX_MAIO MOD 16), 6), C_HSN_0) |          |
| horf                       | ho_ref                                                                                   |          |
| pcmd                       | Pcmd_20(pow)                                                                             |          |
| cchd                       | CellChDes_20_A                                                                           |          |
| ma_at                      | MobiAllc_20_A1                                                                           |          |
| <b>Detailed Comments:</b>  |                                                                                          |          |

| PDU Constraint Declaration |                                                                                           |          |
|----------------------------|-------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_24_A1d(ho_ref: HORF; ts_ccch: BITSTRING; pow: BITSTRING; tsc: TSC)            |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                |          |
| <b>Derivation Path:</b>    | HandOverCmd_22.HandOverCmd_24_A1.                                                         |          |
| <b>Comments:</b>           | A derived HANOVER COMMAND containing TCH/H_FH in non synchronized new CELL A for DCS1800. |          |
| Field Name                 | Field Value                                                                               | Comments |
| ch1d_at                    | ChDescrp_tch_fh(ts_ccch, tsc, TSPX_TCHHSubA, INT_TO_BIT((TSPX_MAIO MOD 16), 6), C_HSN_0)  |          |
| horf                       | ho_ref                                                                                    |          |
| pcmd                       | Pcmd_20(pow)                                                                              |          |
| cchd                       | CellChDes_202_Ad                                                                          |          |
| <b>Detailed Comments:</b>  |                                                                                           |          |

| PDU Constraint Declaration |                                                                                                             |          |
|----------------------------|-------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_24_B1(ho_ref: HORF;ts_ccch: BITSTRING; pow: BITSTRING; tsc: TSC)                                |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                                  |          |
| <b>Derivation Path:</b>    | HandOverCmd_22.                                                                                             |          |
| <b>Comments:</b>           | A derived HANOVER COMMAND containing TCH/H_FH in non synchronized new CELL B for GSM.                       |          |
| Field Name                 | Field Value                                                                                                 | Comments |
| cd                         | CellDescrp(1, 5, C_BCCHcarrierB_ho)                                                                         |          |
| ch1d_at                    | ChDescrp_tchh_fh(ts_ccch, tsc, TSPX_TCHHSubDef, INT_TO_BIT((TSPX_MAIO MOD 12), 6), INT_TO_BIT(TSPX_HSN, 6)) |          |
| horf                       | ho_ref                                                                                                      |          |
| pcmd                       | Pcmd_20(pow)                                                                                                |          |
| synchi                     | Synchi(C_not_report_otd, C_non_synchronized)                                                                |          |
| frql_at                    | Frql_20_B3                                                                                                  |          |
| frqchs_at                  | OMIT                                                                                                        |          |
| <b>Detailed Comments:</b>  |                                                                                                             |          |

| PDU Constraint Declaration |                                                                                                             |          |
|----------------------------|-------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_24_B1d(ho_ref: HORF;ts_ccch: BITSTRING; pow: BITSTRING; tsc: TSC)                               |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                                  |          |
| <b>Derivation Path:</b>    | HandOverCmd_22.HandOverCmd_24_B1.                                                                           |          |
| <b>Comments:</b>           | A derived HANOVER COMMAND containing TCH/H_FH in non synchronized new CELL B for DCS1800.                   |          |
| Field Name                 | Field Value                                                                                                 | Comments |
| cd                         | CellDescrp(1, 5, C_BCCHcarrierB_hod)                                                                        |          |
| ch1d_at                    | ChDescrp_tchh_fh(ts_ccch, tsc, TSPX_TCHHSubDef, INT_TO_BIT((TSPX_MAIO MOD 12), 6), INT_TO_BIT(TSPX_HSN, 6)) |          |
| horf                       | ho_ref                                                                                                      |          |
| pcmd                       | Pcmd_20(pow)                                                                                                |          |
| frql_at                    | Frql_20_B3d                                                                                                 |          |
| <b>Detailed Comments:</b>  |                                                                                                             |          |

| PDU Constraint Declaration |                                                                                                               |          |
|----------------------------|---------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_24_B2(ho_ref: HORF;slot: BITSTRING; pow: BITSTRING; ta: TA; chmod: CHMOD)                         |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                                    |          |
| <b>Derivation Path:</b>    | HandOverCmd_22_B1.                                                                                            |          |
| <b>Comments:</b>           | A derived HANOVER COMMAND containing TCH/H_FH in non synchronized new CELL B.                                 |          |
| Field Name                 | Field Value                                                                                                   | Comments |
| ch1d_at                    | ChDescrp_tchh_fh(slot, TSPX_TscB, TSPX_TCHHSubDef, INT_TO_BIT((TSPX_MAIO MOD 3), 6), INT_TO_BIT(TSPX_HSN, 6)) |          |
| horf                       | ho_ref                                                                                                        |          |
| pcmd                       | Pcmd_20(pow)                                                                                                  |          |
| cchd                       | CellChDes_21_B                                                                                                |          |
| ch1mod                     | chmod                                                                                                         |          |
| frqchs_at                  | OMIT                                                                                                          |          |
| ma_at                      | MobIAllic_252                                                                                                 |          |
| ta                         | ta                                                                                                            |          |
| <b>Detailed Comments:</b>  |                                                                                                               |          |

| PDU Constraint Declaration |                                                                                                              |          |
|----------------------------|--------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_24_B2d(ho_ref: HORF;slot: BITSTRING; pow: BITSTRING; ta: TA; chmod: CHMOD)                       |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                                   |          |
| <b>Derivation Path:</b>    | HandOverCmd_22_B1.                                                                                           |          |
| <b>Comments:</b>           | A derived HANOVER COMMAND containing TCH/H_FH in non synchronized new CELL B.                                |          |
| Field Name                 | Field Value                                                                                                  | Comments |
| cd                         | CellDescrp(3, 0, C_BCCHcarrierB_hod)                                                                         |          |
| ch1d_at                    | ChDescrp_tch_fh(slot, TSPX_TscB, TSPX_TCHHSubDef, INT_TO_BIT((TSPX_MAIO MOD 3), 6), INT_TO_BIT(TSPX_HSN, 6)) |          |
| horf                       | ho_ref                                                                                                       |          |
| pcmd                       | Pcmd_20(pow)                                                                                                 |          |
| synchi                     | Synchi(C_not_report_otd, C_non_synchronized)                                                                 |          |
| cchd                       | CellChDes_21_Bd                                                                                              |          |
| ch1mod                     | chmod                                                                                                        |          |
| frqchs_at                  | OMIT                                                                                                         |          |
| ma_at                      | MobAllc_252d                                                                                                 |          |
| ta                         | ta                                                                                                           |          |
| <b>Detailed Comments:</b>  |                                                                                                              |          |

| PDU Constraint Declaration |                                                                                                         |          |
|----------------------------|---------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_24_B3(ho_ref: HORF;ts_ccch: BITSTRING; pow: BITSTRING; tsc: TSC; chmod: CHMOD)              |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                              |          |
| <b>Derivation Path:</b>    |                                                                                                         |          |
| <b>Comments:</b>           | A derived HANOVER COMMAND containing TCH/H_FH in non synchronized new CELL B.                           |          |
| Field Name                 | Field Value                                                                                             | Comments |
| ski                        | '0000'B                                                                                                 |          |
| rrpd                       | '0110'B                                                                                                 |          |
| mt                         | '00101011'B                                                                                             |          |
| cd                         | CellDescrp(1, 5, C_BCCHcarrierB_ho)                                                                     |          |
| ch1d_at                    | ChDescrp_tch_fh(ts_ccch, tsc, TSPX_TCHHSubA, INT_TO_BIT((TSPX_MAIO MOD 8), 6), INT_TO_BIT(TSPX_HSN, 6)) |          |
| horf                       | ho_ref                                                                                                  |          |
| pcmd                       | Pcmd_20(pow)                                                                                            |          |
| synchi                     | Synchi(C_not_report_otd, C_non_synchronized)                                                            |          |
| frqsl_at                   | OMIT                                                                                                    |          |
| frql_at                    | OMIT                                                                                                    |          |
| cchd                       | OMIT                                                                                                    |          |
| ch1mod                     | chmod                                                                                                   |          |
| ch2d_at                    | OMIT                                                                                                    |          |
| ch2mod                     | OMIT                                                                                                    |          |
| frqchs_at                  | Freqchseq_01                                                                                            |          |
| ma_at                      | OMIT                                                                                                    |          |
| strt                       | OMIT                                                                                                    |          |
| rtdif                      | OMIT                                                                                                    |          |
| ta                         | OMIT                                                                                                    |          |
| frqsl_bt                   | OMIT                                                                                                    |          |
| frql_bt                    | OMIT                                                                                                    |          |
| ch1d_bt                    | OMIT                                                                                                    |          |
| ch2d_bt                    | OMIT                                                                                                    |          |
| frqchs_bt                  | OMIT                                                                                                    |          |
| ma_bt                      | OMIT                                                                                                    |          |
| cphms                      | OMIT                                                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                                                         |          |



| PDU Constraint Declaration |                                                                                                          |          |
|----------------------------|----------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_24_B3d(ho_ref: HORF;ts_ccch: BITSTRING; pow: BITSTRING; tsc: TSC; chmod: CHMOD)              |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                               |          |
| <b>Derivation Path:</b>    | HandOverCmd_24_B3.                                                                                       |          |
| <b>Comments:</b>           | A derived HANDBOVER COMMAND containing TCH/H_FH in non synchronized new CELL B.                          |          |
| Field Name                 | Field Value                                                                                              | Comments |
| cd                         | CellDescrp(1, 5, C_BCCHcarrierB_hod)                                                                     |          |
| ch1d_at                    | ChDescrp_tchh_fh(ts_ccch, tsc, TSPX_TCHHSubA, INT_TO_BIT((TSPX_MAIO MOD 8), 6), INT_TO_BIT(TSPX_HSN, 6)) |          |
| horf                       | ho_ref                                                                                                   |          |
| pcmd                       | Pcmd_20(pow)                                                                                             |          |
| frql_at                    | Frql_20_B4d                                                                                              |          |
| ch1mod                     | chmod                                                                                                    |          |
| frqchs_at                  | OMIT                                                                                                     |          |
| <b>Detailed Comments:</b>  |                                                                                                          |          |

| PDU Constraint Declaration |                                                                                                               |          |
|----------------------------|---------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_24_B4(ho_ref: HORF;slot: BITSTRING; pow: BITSTRING; ta: TA; chmod: CHMOD)                         |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                                    |          |
| <b>Derivation Path:</b>    | HandOverCmd_22_B1.                                                                                            |          |
| <b>Comments:</b>           | A derived HANDBOVER COMMAND containing TCH/H_FH in non synchronized new CELL B.                               |          |
| Field Name                 | Field Value                                                                                                   | Comments |
| ch1d_at                    | ChDescrp_tchh_fh(slot, TSPX_TscC, TSPX_TCHHSubDef, INT_TO_BIT((TSPX_MAIO MOD 2), 6), INT_TO_BIT(TSPX_HSN, 6)) |          |
| horf                       | ho_ref                                                                                                        |          |
| pcmd                       | Pcmd_20(pow)                                                                                                  |          |
| ch1mod                     | chmod                                                                                                         |          |
| frqchs_at                  | Freqchseq_04                                                                                                  |          |
| ta                         | ta                                                                                                            |          |
| <b>Detailed Comments:</b>  |                                                                                                               |          |

| PDU Constraint Declaration |                                                                                                |          |
|----------------------------|------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_24_B4d(ho_ref: HORF;slot: BITSTRING; pow: BITSTRING; ta: TA; chmod: CHMOD)         |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                     |          |
| <b>Derivation Path:</b>    | HandOverCmd_22_B1.                                                                             |          |
| <b>Comments:</b>           | A derived HANDBOVER COMMAND containing TCH/H_FH in non synchronized new CELL B.                |          |
| Field Name                 | Field Value                                                                                    | Comments |
| cd                         | CellDescrp(3, 0, C_BCCHcarrierB_hod)                                                           |          |
| ch1d_at                    | ChDescrp_tchh_fh(slot, TSPX_TscC, TSPX_TCHHSubDef, INT_TO_BIT((TSPX_MAIO MOD 15), 6), C_HSN_0) |          |
| horf                       | ho_ref                                                                                         |          |
| pcmd                       | Pcmd_20(pow)                                                                                   |          |
| frql_at                    | Frql_20_11d                                                                                    |          |
| ch1mod                     | chmod                                                                                          |          |
| frqchs_at                  | OMIT                                                                                           |          |
| ta                         | ta                                                                                             |          |
| <b>Detailed Comments:</b>  |                                                                                                |          |

| <b>PDU Constraint Declaration</b> |                                                                                                         |          |
|-----------------------------------|---------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>           | HandOverCmd_25_B1(ho_ref: HORF;slot: BITSTRING; par_arfcn: INTEGER; pow: BITSTRING; bccharfcn: INTEGER) |          |
| <b>PDU Type:</b>                  | HO_CMD_PDU                                                                                              |          |
| <b>Derivation Path:</b>           |                                                                                                         |          |
| <b>Comments:</b>                  | A HANOVER COMMAND containing TCH/H_NonFH in non synchronized new CELL B.                                |          |
| Field Name                        | Field Value                                                                                             | Comments |
| ski                               | '0000'B                                                                                                 |          |
| rrpd                              | '0110'B                                                                                                 |          |
| mt                                | '00101011'B                                                                                             |          |
| cd                                | CellDescrp(3, 0, bccharfcn)                                                                             |          |
| ch1d_at                           | ChDescrp_tchh_nfh(slot, TSPX_TscB, TSPX_TCHHSubDef, par_arfcn)                                          |          |
| horf                              | ho_ref                                                                                                  |          |
| pcmd                              | Pcmd_20(pow)                                                                                            |          |
| synchi                            | Synchi(C_not_report_otd, C_non_synchronized)                                                            |          |
| frqsl_at                          | OMIT                                                                                                    |          |
| frql_at                           | OMIT                                                                                                    |          |
| cchd                              | OMIT                                                                                                    |          |
| ch1mod                            | ChMod_sign_iei                                                                                          |          |
| ch2d_at                           | OMIT                                                                                                    |          |
| ch2mod                            | OMIT                                                                                                    |          |
| frqchs_at                         | OMIT                                                                                                    |          |
| ma_at                             | OMIT                                                                                                    |          |
| strt                              | OMIT                                                                                                    |          |
| rtdif                             | OMIT                                                                                                    |          |
| ta                                | OMIT                                                                                                    |          |
| frqsl_bt                          | OMIT                                                                                                    |          |
| frql_bt                           | OMIT                                                                                                    |          |
| ch1d_bt                           | OMIT                                                                                                    |          |
| ch2d_bt                           | OMIT                                                                                                    |          |
| frqchs_bt                         | OMIT                                                                                                    |          |
| ma_bt                             | OMIT                                                                                                    |          |
| cphms                             | OMIT                                                                                                    |          |
| <b>Detailed Comments:</b>         |                                                                                                         |          |

| PDU Constraint Declaration |                                                                                                                       |          |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_25_B2(ho_ref: HORF;slot: BITSTRING; par_arfcn: INTEGER; pow: BITSTRING; bccharfcn: INTEGER; chmod: CHMOD) |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                                            |          |
| <b>Derivation Path:</b>    |                                                                                                                       |          |
| <b>Comments:</b>           | A HANDOVER COMMAND containing TCH/F_NonFH in non synchronized new CELL B.                                             |          |
| Field Name                 | Field Value                                                                                                           | Comments |
| ski                        | '0000'B                                                                                                               |          |
| rrpd                       | '0110'B                                                                                                               |          |
| mt                         | '00101011'B                                                                                                           |          |
| cd                         | CellDescrp(1, 5, bccharfcn)                                                                                           |          |
| ch1d_at                    | ChDescrp_nfh('00001'B, slot, TSPX_TscB, par_arfcn)                                                                    |          |
| horf                       | ho_ref                                                                                                                |          |
| pcmd                       | Pcmd_20(pow)                                                                                                          |          |
| synchi                     | Synchi(C_not_report_otd, C_synchronized)                                                                              |          |
| frqsl_at                   | OMIT                                                                                                                  |          |
| frql_at                    | OMIT                                                                                                                  |          |
| cchd                       | OMIT                                                                                                                  |          |
| ch1mod                     | chmod                                                                                                                 |          |
| ch2d_at                    | OMIT                                                                                                                  |          |
| ch2mod                     | OMIT                                                                                                                  |          |
| frqchs_at                  | OMIT                                                                                                                  |          |
| ma_at                      | OMIT                                                                                                                  |          |
| strt                       | OMIT                                                                                                                  |          |
| rtdif                      | OMIT                                                                                                                  |          |
| ta                         | OMIT                                                                                                                  |          |
| frqsl_bt                   | OMIT                                                                                                                  |          |
| frql_bt                    | OMIT                                                                                                                  |          |
| ch1d_bt                    | OMIT                                                                                                                  |          |
| ch2d_bt                    | OMIT                                                                                                                  |          |
| frqchs_bt                  | OMIT                                                                                                                  |          |
| ma_bt                      | OMIT                                                                                                                  |          |
| cphms                      | OMIT                                                                                                                  |          |
| <b>Detailed Comments:</b>  |                                                                                                                       |          |

| PDU Constraint Declaration |                                                                                                                       |          |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_25_B3(ho_ref: HORF;slot: BITSTRING; par_arfcn: INTEGER; pow: BITSTRING; bccharfcn: INTEGER; chmod: CHMOD) |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                                            |          |
| <b>Derivation Path:</b>    |                                                                                                                       |          |
| <b>Comments:</b>           | A HANDOVER COMMAND containing TCH/H_NonFH in non synchronized new CELL B.                                             |          |
| Field Name                 | Field Value                                                                                                           | Comments |
| ski                        | '0000'B                                                                                                               |          |
| rrpd                       | '0110'B                                                                                                               |          |
| mt                         | '00101011'B                                                                                                           |          |
| cd                         | CellDescrp(1, 5, bccharfcn)                                                                                           |          |
| ch1d_at                    | ChDescrp_tchh_nfh(slot, TSPX_TscC, TSPX_TCHHSubDef, par_arfcn)                                                        |          |
| horf                       | ho_ref                                                                                                                |          |
| pcmd                       | Pcmd_20(pow)                                                                                                          |          |
| synchi                     | Synchi(C_not_report_otd, C_synchronized)                                                                              |          |
| frqsl_at                   | OMIT                                                                                                                  |          |
| frql_at                    | OMIT                                                                                                                  |          |
| cchd                       | OMIT                                                                                                                  |          |
| ch1mod                     | chmod                                                                                                                 |          |
| ch2d_at                    | OMIT                                                                                                                  |          |
| ch2mod                     | OMIT                                                                                                                  |          |
| frqchs_at                  | OMIT                                                                                                                  |          |
| ma_at                      | OMIT                                                                                                                  |          |
| strt                       | OMIT                                                                                                                  |          |
| rtdif                      | OMIT                                                                                                                  |          |
| ta                         | OMIT                                                                                                                  |          |
| frqsl_bt                   | OMIT                                                                                                                  |          |
| frql_bt                    | OMIT                                                                                                                  |          |
| ch1d_bt                    | OMIT                                                                                                                  |          |
| ch2d_bt                    | OMIT                                                                                                                  |          |
| frqchs_bt                  | OMIT                                                                                                                  |          |
| ma_bt                      | OMIT                                                                                                                  |          |
| cphms                      | OMIT                                                                                                                  |          |
| <b>Detailed Comments:</b>  |                                                                                                                       |          |

| PDU Constraint Declaration |                                                                                                                                                         |          |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_26_B1e(ho_ref: HORF;ts_ccch: BITSTRING; pow: BITSTRING; par_chtype: CH_TDMA; par_flist: OCTETSTRING; ta: TA; chmodiei: CHMOD; n: INTEGER)   |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                                                                              |          |
| <b>Derivation Path:</b>    |                                                                                                                                                         |          |
| <b>Comments:</b>           | A HANOVER COMMAND containing a hopping channel in non synchronized new CELL B, hopping frequencies is specified by short frequency list. used for EGSM. |          |
| Field Name                 | Field Value                                                                                                                                             | Comments |
| ski                        | '0000'B                                                                                                                                                 |          |
| rrpd                       | '0110'B                                                                                                                                                 |          |
| mt                         | '00101011'B                                                                                                                                             |          |
| cd                         | CellDescrp(1, 3, C_BCCHcarrierB_ho)                                                                                                                     |          |
| ch1d_at                    | ChDescrp_fh(par_chtype, ts_ccch, TSPX_TscDef, INT_TO_BIT((TSPX_MAIO MOD n), 6), INT_TO_BIT(TSPX_HSN, 6))                                                |          |
| horf                       | ho_ref                                                                                                                                                  |          |
| pcmd                       | Pcmd_20(pow)                                                                                                                                            |          |
| synchi                     | OMIT                                                                                                                                                    |          |
| frqsl_at                   | Frql_short(par_flist)                                                                                                                                   |          |
| frql_at                    | OMIT                                                                                                                                                    |          |
| cchd                       | OMIT                                                                                                                                                    |          |
| ch1mod                     | chmodiei                                                                                                                                                |          |
| ch2d_at                    | OMIT                                                                                                                                                    |          |
| ch2mod                     | OMIT                                                                                                                                                    |          |
| frqchs_at                  | OMIT                                                                                                                                                    |          |
| ma_at                      | OMIT                                                                                                                                                    |          |
| strt                       | OMIT                                                                                                                                                    |          |
| rtdif                      | OMIT                                                                                                                                                    |          |
| ta                         | ta                                                                                                                                                      |          |
| frqsl_bt                   | OMIT                                                                                                                                                    |          |
| frql_bt                    | OMIT                                                                                                                                                    |          |
| ch1d_bt                    | OMIT                                                                                                                                                    |          |
| ch2d_bt                    | OMIT                                                                                                                                                    |          |
| frqchs_bt                  | OMIT                                                                                                                                                    |          |
| ma_bt                      | OMIT                                                                                                                                                    |          |
| cphms                      | OMIT                                                                                                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                         |          |

| <b>PDU Constraint Declaration</b> |                                                                                                                                                                    |          |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>           | HandOverCmd_26_B2e(ho_ref: HORF; ts_ccch: BITSTRING; pow: BITSTRING; par_chtype: CH_TDMA; par_flist, par_flistl: OCTETSTRING; ta: TA; chmodiei: CHMOD; n: INTEGER) |          |
| <b>PDU Type:</b>                  | HO_CMD_PDU                                                                                                                                                         |          |
| <b>Derivation Path:</b>           |                                                                                                                                                                    |          |
| <b>Comments:</b>                  | A HANOVER COMMAND containing a hopping channel in non synchronized new CELL B, hopping frequencies is specified by frequency list. used for EGSM.                  |          |
| Field Name                        | Field Value                                                                                                                                                        | Comments |
| ski                               | '0000'B                                                                                                                                                            |          |
| rrpd                              | '0110'B                                                                                                                                                            |          |
| mt                                | '00101011'B                                                                                                                                                        |          |
| cd                                | CellDescrp(1, 3, C_BCCHcarrierB_ho)                                                                                                                                |          |
| ch1d_at                           | ChDescrp_fh(par_chtype, ts_ccch, TSPX_TscDef, INT_TO_BIT((TSPX_MAIO MOD n), 6), INT_TO_BIT(TSPX_HSN, 6))                                                           |          |
| horf                              | ho_ref                                                                                                                                                             |          |
| pcmd                              | Pcmd_20(pow)                                                                                                                                                       |          |
| synchi                            | OMIT                                                                                                                                                               |          |
| frqsl_at                          | OMIT                                                                                                                                                               |          |
| frql_at                           | Frql(par_flist, par_flistl)                                                                                                                                        |          |
| cchd                              | OMIT                                                                                                                                                               |          |
| ch1mod                            | chmodiei                                                                                                                                                           |          |
| ch2d_at                           | OMIT                                                                                                                                                               |          |
| ch2mod                            | OMIT                                                                                                                                                               |          |
| frqchs_at                         | OMIT                                                                                                                                                               |          |
| ma_at                             | OMIT                                                                                                                                                               |          |
| strt                              | OMIT                                                                                                                                                               |          |
| rtdif                             | OMIT                                                                                                                                                               |          |
| ta                                | ta                                                                                                                                                                 |          |
| frqsl_bt                          | OMIT                                                                                                                                                               |          |
| frql_bt                           | OMIT                                                                                                                                                               |          |
| ch1d_bt                           | OMIT                                                                                                                                                               |          |
| ch2d_bt                           | OMIT                                                                                                                                                               |          |
| frqchs_bt                         | OMIT                                                                                                                                                               |          |
| ma_bt                             | OMIT                                                                                                                                                               |          |
| cphms                             | OMIT                                                                                                                                                               |          |
| <b>Detailed Comments:</b>         |                                                                                                                                                                    |          |

| PDU Constraint Declaration |                                                                                                                                                                                   |          |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_26_B3e(ho_ref: HORF;ts_ccch: BITSTRING; pow: BITSTRING; par_chtype: CH_TDMA; rfi: OCTETSTRING; ma: MA; ta: TA; chmodiei: CHMOD; n: INTEGER)                           |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                                                                                                        |          |
| <b>Derivation Path:</b>    |                                                                                                                                                                                   |          |
| <b>Comments:</b>           | A HANOVER COMMAND containing a hopping channel in non synchronized new CELL B, hopping frequencies is specified by mobile allocation and cell channel description. used for EGSM. |          |
| Field Name                 | Field Value                                                                                                                                                                       | Comments |
| ski                        | '0000'B                                                                                                                                                                           |          |
| rrpd                       | '0110'B                                                                                                                                                                           |          |
| mt                         | '00101011'B                                                                                                                                                                       |          |
| cd                         | CellDescrp(1, 3, C_BCCHcarrierB_ho)                                                                                                                                               |          |
| ch1d_at                    | ChDescrp_fh(par_chtype, ts_ccch, TSPX_TscDef, INT_TO_BIT((TSPX_MAIO MOD n), 6), INT_TO_BIT(TSPX_HSN, 6))                                                                          |          |
| horf                       | ho_ref                                                                                                                                                                            |          |
| pcmd                       | Pcmd_20(pow)                                                                                                                                                                      |          |
| synchi                     | OMIT                                                                                                                                                                              |          |
| frqsl_at                   | OMIT                                                                                                                                                                              |          |
| frql_at                    | OMIT                                                                                                                                                                              |          |
| cchd                       | CellChDes_20_Be(rfi)                                                                                                                                                              |          |
| ch1mod                     | chmodiei                                                                                                                                                                          |          |
| ch2d_at                    | OMIT                                                                                                                                                                              |          |
| ch2mod                     | OMIT                                                                                                                                                                              |          |
| frqchs_at                  | OMIT                                                                                                                                                                              |          |
| ma_at                      | OMIT                                                                                                                                                                              |          |
| strt                       | OMIT                                                                                                                                                                              |          |
| rtdif                      | OMIT                                                                                                                                                                              |          |
| ta                         | ta                                                                                                                                                                                |          |
| frqsl_bt                   | OMIT                                                                                                                                                                              |          |
| frql_bt                    | OMIT                                                                                                                                                                              |          |
| ch1d_bt                    | OMIT                                                                                                                                                                              |          |
| ch2d_bt                    | OMIT                                                                                                                                                                              |          |
| frqchs_bt                  | OMIT                                                                                                                                                                              |          |
| ma_bt                      | OMIT                                                                                                                                                                              |          |
| cphms                      | OMIT                                                                                                                                                                              |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                                   |          |

| PDU Constraint Declaration |                                                                                                         |          |
|----------------------------|---------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_27_B1(ho_ref: HORF;slot: BITSTRING; par_arfcn: INTEGER; pow: BITSTRING; bccharfcn: INTEGER) |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                              |          |
| <b>Derivation Path:</b>    |                                                                                                         |          |
| <b>Comments:</b>           | A HANDOVER COMMAND containing SDCCH/4_NonFH in synchronized new CELL B.                                 |          |
| Field Name                 | Field Value                                                                                             | Comments |
| ski                        | '0000'B                                                                                                 |          |
| rrpd                       | '0110'B                                                                                                 |          |
| mt                         | '00101011'B                                                                                             |          |
| cd                         | CellDescrp(1, 5, bccharfcn)                                                                             |          |
| ch1d_at                    | ChDescrp_nfh(INT_TO_BIT((4 + BIT_TO_INT(TSPX_SDCCH4SubDef)), 5), slot, C_BCC, par_arfcn)                |          |
| horf                       | ho_ref                                                                                                  |          |
| pcmd                       | Pcmd_20(pow)                                                                                            |          |
| synchi                     | Synchi(C_not_report_otd, C_synchronized)                                                                |          |
| frqsl_at                   | OMIT                                                                                                    |          |
| frql_at                    | OMIT                                                                                                    |          |
| cchd                       | OMIT                                                                                                    |          |
| ch1mod                     | OMIT                                                                                                    |          |
| ch2d_at                    | OMIT                                                                                                    |          |
| ch2mod                     | OMIT                                                                                                    |          |
| frqchs_at                  | OMIT                                                                                                    |          |
| ma_at                      | OMIT                                                                                                    |          |
| strt                       | OMIT                                                                                                    |          |
| rtdif                      | OMIT                                                                                                    |          |
| ta                         | OMIT                                                                                                    |          |
| frqsl_bt                   | OMIT                                                                                                    |          |
| frql_bt                    | OMIT                                                                                                    |          |
| ch1d_bt                    | OMIT                                                                                                    |          |
| ch2d_bt                    | OMIT                                                                                                    |          |
| frqchs_bt                  | OMIT                                                                                                    |          |
| ma_bt                      | OMIT                                                                                                    |          |
| cphms                      | OMIT                                                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                                                         |          |

| PDU Constraint Declaration |                                                                                                         |          |
|----------------------------|---------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_27_B2(ho_ref: HORF;slot: BITSTRING; par_arfcn: INTEGER; pow: BITSTRING; bccharfcn: INTEGER) |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                              |          |
| <b>Derivation Path:</b>    | HandOverCmd_27_B1.                                                                                      |          |
| <b>Comments:</b>           | A HANDOVER COMMAND containing SDCCH/4_NonFH in synchronized new CELL B.                                 |          |
| Field Name                 | Field Value                                                                                             | Comments |
| cd                         | CellDescrp(1, 5, bccharfcn)                                                                             |          |
| ch1d_at                    | ChDescrp_nfh('00001'B, slot, TSPX_TscA, par_arfcn)                                                      |          |
| horf                       | ho_ref                                                                                                  |          |
| pcmd                       | Pcmd_20(pow)                                                                                            |          |
| <b>Detailed Comments:</b>  |                                                                                                         |          |



| PDU Constraint Declaration |                                                                                                                 |          |
|----------------------------|-----------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_28_B1(ho_ref: HORF;slt: BITSTRING; pow: BITSTRING; ta: TA)                                          |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                                      |          |
| <b>Derivation Path:</b>    |                                                                                                                 |          |
| <b>Comments:</b>           | A derived HANOVER COMMAND containing SDCCH/8_FH in non synchronized in CELL B.                                  |          |
| Field Name                 | Field Value                                                                                                     | Comments |
| ski                        | '0000'B                                                                                                         |          |
| rrpd                       | '0110'B                                                                                                         |          |
| mt                         | '00101011'B                                                                                                     |          |
| cd                         | CellDescrp(3, 0, C_BCCHcarrierB_ho)                                                                             |          |
| ch1d_at                    | ChDescrp_sdcch8_fh(slt, TSPX_TscC, TSPX_SDCCH8SubA, INT_TO_BIT((TSPX_MAIO MOD 15), 6), INT_TO_BIT(TSPX_HSN, 6)) |          |
| horf                       | ho_ref                                                                                                          |          |
| pcmd                       | Pcmd_20(pow)                                                                                                    |          |
| synchi                     | OMIT                                                                                                            |          |
| frqsl_at                   | OMIT                                                                                                            |          |
| frql_at                    | Frql_20_B7                                                                                                      |          |
| cchd                       | OMIT                                                                                                            |          |
| ch1mod                     | ChMod_sign_iei                                                                                                  |          |
| ch2d_at                    | OMIT                                                                                                            |          |
| ch2mod                     | OMIT                                                                                                            |          |
| frqchs_at                  | OMIT                                                                                                            |          |
| ma_at                      | OMIT                                                                                                            |          |
| strt                       | OMIT                                                                                                            |          |
| rtdif                      | OMIT                                                                                                            |          |
| ta                         | ta                                                                                                              |          |
| frqsl_bt                   | OMIT                                                                                                            |          |
| frql_bt                    | OMIT                                                                                                            |          |
| ch1d_bt                    | OMIT                                                                                                            |          |
| ch2d_bt                    | OMIT                                                                                                            |          |
| frqchs_bt                  | OMIT                                                                                                            |          |
| ma_bt                      | OMIT                                                                                                            |          |
| cphms                      | OMIT                                                                                                            |          |
| <b>Detailed Comments:</b>  |                                                                                                                 |          |

| PDU Constraint Declaration |                                                                                                |          |
|----------------------------|------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_28_B1d(ho_ref: HORF;slt: BITSTRING; pow: BITSTRING; ta: TA)                        |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                     |          |
| <b>Derivation Path:</b>    | HandOverCmd_28_B1.                                                                             |          |
| <b>Comments:</b>           | A derived HANOVER COMMAND containing SDCCH/8_FH in non synchronized in CELL B.                 |          |
| Field Name                 | Field Value                                                                                    | Comments |
| cd                         | CellDescrp(3, 0, C_BCCHcarrierB_hod)                                                           |          |
| ch1d_at                    | ChDescrp_sdcch8_fh(slt, TSPX_TscC, TSPX_SDCCH8SubA, INT_TO_BIT((TSPX_MAIO MOD 2), 6), C_HSN_0) |          |
| horf                       | ho_ref                                                                                         |          |
| pcmd                       | Pcmd_20(pow)                                                                                   |          |
| frql_at                    | Frql_20_B7d                                                                                    |          |
| ch1mod                     | ChMod_sign_iei                                                                                 |          |
| ta                         | ta                                                                                             |          |
| <b>Detailed Comments:</b>  |                                                                                                |          |

| PDU Constraint Declaration |                                                                                                                 |          |
|----------------------------|-----------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_28_B2(ho_ref: HORF;slt: BITSTRING; pow: BITSTRING; ta: TA)                                          |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                                      |          |
| <b>Derivation Path:</b>    | HandOverCmd_28_B1.                                                                                              |          |
| <b>Comments:</b>           | A derived HANDOVER COMMAND containing SDCCH/8_FH in non synchronized in CELL B.                                 |          |
| Field Name                 | Field Value                                                                                                     | Comments |
| cd                         | CellDescrp(3, 0, C_BCCHcarrierB_ho)                                                                             |          |
| ch1d_at                    | ChDescrp_sdcch8_fh(slt, TSPX_TscB, TSPX_SDCCH8SubA, INT_TO_BIT((TSPX_MAIO MOD 14), 6), INT_TO_BIT(TSPX_HSN, 6)) |          |
| horf                       | ho_ref                                                                                                          |          |
| pcmd                       | Pcmd_20(pow)                                                                                                    |          |
| synchi                     | Synchi(C_not_report_otd, C_non_synchronized)                                                                    |          |
| frql_at                    | OMIT                                                                                                            |          |
| ch1mod                     | OMIT                                                                                                            |          |
| frqchs_at                  | Freqchseq_02                                                                                                    |          |
| ta                         | ta                                                                                                              |          |
| <b>Detailed Comments:</b>  |                                                                                                                 |          |

| PDU Constraint Declaration |                                                                                                 |          |
|----------------------------|-------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_28_B2d(ho_ref: HORF;slt: BITSTRING; pow: BITSTRING; ta: TA)                         |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                      |          |
| <b>Derivation Path:</b>    | HandOverCmd_28_B1.                                                                              |          |
| <b>Comments:</b>           | A derived HANDOVER COMMAND containing SDCCH/8_FH in non synchronized in CELL B.                 |          |
| Field Name                 | Field Value                                                                                     | Comments |
| cd                         | CellDescrp(3, 0, C_BCCHcarrierB_hod)                                                            |          |
| ch1d_at                    | ChDescrp_sdcch8_fh(slt, TSPX_TscB, TSPX_SDCCH8SubA, INT_TO_BIT((TSPX_MAIO MOD 16), 6), C_HSN_0) |          |
| horf                       | ho_ref                                                                                          |          |
| pcmd                       | Pcmd_20(pow)                                                                                    |          |
| synchi                     | Synchi(C_not_report_otd, C_non_synchronized)                                                    |          |
| frqsl_at                   | Frql_20_B8d                                                                                     |          |
| frql_at                    | OMIT                                                                                            |          |
| ch1mod                     | OMIT                                                                                            |          |
| strt                       | OMIT                                                                                            |          |
| ta                         | ta                                                                                              |          |
| <b>Detailed Comments:</b>  |                                                                                                 |          |

| PDU Constraint Declaration |                                                                                                   |          |
|----------------------------|---------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_28_B3(ho_ref: HORF;slt: BITSTRING; pow: BITSTRING; ta: TA)                            |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                        |          |
| <b>Derivation Path:</b>    | HandOverCmd_28_B1.                                                                                |          |
| <b>Comments:</b>           | A derived HANOVER COMMAND containing SDCCH/8_FH in non synchronized in CELL B.(GSM)               |          |
| Field Name                 | Field Value                                                                                       | Comments |
| cd                         | CellDescrp(1, 5, C_BCCHcarrierB_ho)                                                               |          |
| ch1d_at                    | ChDescrp_sdcch8_fh(slt, TSPX_TscA, TSPX_SDCCH8SubDef, INT_TO_BIT((TSPX_MAIO MOD 16), 6), C_HSN_0) |          |
| horf                       | ho_ref                                                                                            |          |
| pcmd                       | Pcmd_20(pow)                                                                                      |          |
| synchi                     | Synchi(C_not_report_otd, C_synchronized)                                                          |          |
| frql_at                    | Frql_20_B0                                                                                        |          |
| ch1mod                     | ChMod_sign                                                                                        |          |
| ta                         | ta                                                                                                |          |
| <b>Detailed Comments:</b>  |                                                                                                   |          |

| PDU Constraint Declaration |                                                                                                   |          |
|----------------------------|---------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_28_B3d(ho_ref: HORF;slt: BITSTRING; pow: BITSTRING; ta: TA)                           |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                        |          |
| <b>Derivation Path:</b>    | HandOverCmd_28_B1.                                                                                |          |
| <b>Comments:</b>           | A derived HANOVER COMMAND containing SDCCH/8_FH in non synchronized in CELL B.(DCS)               |          |
| Field Name                 | Field Value                                                                                       | Comments |
| cd                         | CellDescrp(1, 5, C_BCCHcarrierB_hod)                                                              |          |
| ch1d_at                    | ChDescrp_sdcch8_fh(slt, TSPX_TscA, TSPX_SDCCH8SubDef, INT_TO_BIT((TSPX_MAIO MOD 16), 6), C_HSN_0) |          |
| horf                       | ho_ref                                                                                            |          |
| pcmd                       | Pcmd_20(pow)                                                                                      |          |
| synchi                     | Synchi(C_not_report_otd, C_synchronized)                                                          |          |
| frql_at                    | Frql_20_B0d                                                                                       |          |
| ch1mod                     | ChMod_sign                                                                                        |          |
| ta                         | ta                                                                                                |          |
| <b>Detailed Comments:</b>  |                                                                                                   |          |

| <b>PDU Constraint Declaration</b> |                                                                                                    |          |
|-----------------------------------|----------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>           | HandOverCmd_32(slot: SN; tsc: TSC)                                                                 |          |
| <b>PDU Type:</b>                  | HO_CMD_PDU                                                                                         |          |
| <b>Derivation Path:</b>           |                                                                                                    |          |
| <b>Comments:</b>                  | non synchronised, no ciphering for GSM                                                             |          |
| Field Name                        | Field Value                                                                                        | Comments |
| ski                               | '0000'B                                                                                            |          |
| rrpd                              | '0110'B                                                                                            |          |
| mt                                | '00101011'B                                                                                        |          |
| cd                                | CellDescrp(1, 5, C_BCCHcarrierB_ho)                                                                |          |
| ch1d_at                           | ChDescrp_fh(TSPX_Chtp7, slot, tsc,<br>INT_TO_BIT(TSPX_Maio15, 6),<br>INT_TO_BIT(TSPX_Hsn15, 6))    |          |
| horf                              | TSPX_HoRefA                                                                                        |          |
| pcmd                              | Pcmd_19(INT_TO_BIT(TSPX_PwrlvIA,<br>5))                                                            |          |
| synchi                            | Synchi(C_not_report_otd,<br>C_non_synchronized)                                                    |          |
| frqsl_at                          | OMIT                                                                                               |          |
| frql_at                           | OMIT                                                                                               |          |
| cchd                              | CellChDes_20_Bman                                                                                  |          |
| ch1mod                            | ChMod_r03                                                                                          |          |
| ch2d_at                           | OMIT                                                                                               |          |
| ch2mod                            | OMIT                                                                                               |          |
| frqchs_at                         | OMIT                                                                                               |          |
| ma_at                             | MoblAllc_r18                                                                                       |          |
| strt                              | ?                                                                                                  |          |
| rtdif                             | OMIT                                                                                               |          |
| ta                                | OMIT                                                                                               |          |
| frqsl_bt                          | OMIT                                                                                               |          |
| frql_bt                           | OMIT                                                                                               |          |
| ch1d_bt                           | ChDescrp_fhiei(TSPX_Chtp7, slot, tsc,<br>INT_TO_BIT(TSPX_Maio16, 6),<br>INT_TO_BIT(TSPX_Hsn16, 6)) |          |
| ch2d_bt                           | OMIT                                                                                               |          |
| frqchs_bt                         | OMIT                                                                                               |          |
| ma_bt                             | MoblAllc_r20                                                                                       |          |
| cphms                             | CphMod_02iei                                                                                       |          |
| <b>Detailed Comments:</b>         | used in TC_26_6_13_5 only.                                                                         |          |

| PDU Constraint Declaration |                                                                                                    |          |
|----------------------------|----------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_33(slot: SN; tsc: TSC)                                                                 |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                         |          |
| <b>Derivation Path:</b>    |                                                                                                    |          |
| <b>Comments:</b>           | non synchronised, no ciphering for DCS                                                             |          |
| Field Name                 | Field Value                                                                                        | Comments |
| ski                        | '0000'B                                                                                            |          |
| rrpd                       | '0110'B                                                                                            |          |
| mt                         | '00101011'B                                                                                        |          |
| cd                         | CellDescrp(1, 5, C_BCCHcarrierB_hod)                                                               |          |
| ch1d_at                    | ChDescrp_fh(TSPX_Chtp7, slot, tsc,<br>INT_TO_BIT(TSPX_Maio15, 6),<br>INT_TO_BIT(TSPX_Hsn15, 6))    |          |
| horf                       | TSPX_HoRefA                                                                                        |          |
| pcmd                       | Pcmd_19(INT_TO_BIT(TSPX_PwrlvIA,<br>5))                                                            |          |
| synchi                     | Synchi(C_not_report_otd,<br>C_non_synchronized)                                                    |          |
| frqsl_at                   | OMIT                                                                                               |          |
| frql_at                    | OMIT                                                                                               |          |
| cchd                       | CellChDes_201_Bd                                                                                   |          |
| ch1mod                     | ChMod_r03                                                                                          |          |
| ch2d_at                    | OMIT                                                                                               |          |
| ch2mod                     | OMIT                                                                                               |          |
| frqchs_at                  | OMIT                                                                                               |          |
| ma_at                      | MoblAllic_r18                                                                                      |          |
| strt                       | ?                                                                                                  |          |
| rtdif                      | OMIT                                                                                               |          |
| ta                         | OMIT                                                                                               |          |
| frqsl_bt                   | OMIT                                                                                               |          |
| frql_bt                    | OMIT                                                                                               |          |
| ch1d_bt                    | ChDescrp_fhiei(TSPX_Chtp7, slot, tsc,<br>INT_TO_BIT(TSPX_Maio16, 6),<br>INT_TO_BIT(TSPX_Hsn16, 6)) |          |
| ch2d_bt                    | OMIT                                                                                               |          |
| frqchs_bt                  | OMIT                                                                                               |          |
| ma_bt                      | MoblAllic_r20                                                                                      |          |
| cphms                      | CphMod_02iei                                                                                       |          |
| <b>Detailed Comments:</b>  | used in TC_26_6_13_5 only.                                                                         |          |

| PDU Constraint Declaration |                                                                                                    |          |
|----------------------------|----------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_34(slot: SN; tsc: TSC; st: STRT)                                                       |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                         |          |
| <b>Derivation Path:</b>    |                                                                                                    |          |
| <b>Comments:</b>           | non synchronised for GSM                                                                           |          |
| Field Name                 | Field Value                                                                                        | Comments |
| ski                        | '0000'B                                                                                            |          |
| rrpd                       | '0110'B                                                                                            |          |
| mt                         | '00101011'B                                                                                        |          |
| cd                         | CellDescrp(1, 5, C_BCCHcarrierB_ho)                                                                |          |
| ch1d_at                    | ChDescrp_fh(TSPX_Chtp8, slot, tsc,<br>INT_TO_BIT(TSPX_Maio18, 6),<br>INT_TO_BIT(TSPX_Hsn18, 6))    |          |
| horf                       | TSPX_HoRefA                                                                                        |          |
| pcmd                       | Pcmd_19(INT_TO_BIT(TSPX_PwrlvlB,<br>5))                                                            |          |
| synchi                     | Synchi(C_not_report_otd,<br>C_non_synchronized)                                                    |          |
| frqsl_at                   | OMIT                                                                                               |          |
| frql_at                    | OMIT                                                                                               |          |
| cchd                       | CellChDes_20_Bman                                                                                  |          |
| ch1mod                     | ChMod_r04                                                                                          |          |
| ch2d_at                    | OMIT                                                                                               |          |
| ch2mod                     | OMIT                                                                                               |          |
| frqchs_at                  | OMIT                                                                                               |          |
| ma_at                      | MoblAllc_r22                                                                                       |          |
| strt                       | st                                                                                                 |          |
| rtdif                      | OMIT                                                                                               |          |
| ta                         | OMIT                                                                                               |          |
| frqsl_bt                   | OMIT                                                                                               |          |
| frql_bt                    | OMIT                                                                                               |          |
| ch1d_bt                    | ChDescrp_fhiei(TSPX_Chtp8, slot, tsc,<br>INT_TO_BIT(TSPX_Maio19, 6),<br>INT_TO_BIT(TSPX_Hsn19, 6)) |          |
| ch2d_bt                    | OMIT                                                                                               |          |
| frqchs_bt                  | OMIT                                                                                               |          |
| ma_bt                      | MoblAllc_r23                                                                                       |          |
| cphms                      | OMIT                                                                                               |          |
| <b>Detailed Comments:</b>  | used in TC_26_6_13_6 only.                                                                         |          |

| PDU Constraint Declaration |                                                                                                    |          |
|----------------------------|----------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_35(slot: SN; tsc: TSC; st: STRT)                                                       |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                         |          |
| <b>Derivation Path:</b>    | HandOverCmd_34.                                                                                    |          |
| <b>Comments:</b>           | non synchronised for DCS                                                                           |          |
| Field Name                 | Field Value                                                                                        | Comments |
| cd                         | CellDescrp(1, 5, C_BCCHcarrierB_hod)                                                               |          |
| ch1d_at                    | ChDescrp_fh(TSPX_Chtp8, slot, tsc,<br>INT_TO_BIT(TSPX_Maio18, 6),<br>INT_TO_BIT(TSPX_Hsn18, 6))    |          |
| cchd                       | CellChDes_201_Bd                                                                                   |          |
| strt                       | st                                                                                                 |          |
| ch1d_bt                    | ChDescrp_fhiei(TSPX_Chtp8, slot, tsc,<br>INT_TO_BIT(TSPX_Maio19, 6),<br>INT_TO_BIT(TSPX_Hsn19, 6)) |          |
| <b>Detailed Comments:</b>  | used in TC_26_6_13_6 only.                                                                         |          |

| PDU Constraint Declaration |                                                                                                     |          |
|----------------------------|-----------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_36(slot: SN; tsc: TSC; st: STRT)                                                        |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                          |          |
| <b>Derivation Path:</b>    |                                                                                                     |          |
| <b>Comments:</b>           | non synchronised for GSM                                                                            |          |
| Field Name                 | Field Value                                                                                         | Comments |
| ski                        | '0000'B                                                                                             |          |
| rrpd                       | '0110'B                                                                                             |          |
| mt                         | '00101011'B                                                                                         |          |
| cd                         | CellDescrp(1, 5, C_BCCHcarrierB_ho)                                                                 |          |
| ch1d_at                    | ChDescrp_fh(TSPX_Chtp10, slot, tsc,<br>INT_TO_BIT(TSPX_Maio22, 6),<br>INT_TO_BIT(TSPX_Hsn22, 6))    |          |
| horf                       | TSPX_HoRefA                                                                                         |          |
| pcmd                       | Pcmd_19(INT_TO_BIT(TSPX_PwrlvIC,<br>5))                                                             |          |
| synchi                     | Synchi(C_not_report_otd,<br>C_non_synchronized)                                                     |          |
| frqsl_at                   | OMIT                                                                                                |          |
| frql_at                    | OMIT                                                                                                |          |
| cchd                       | CellChDes_20_Bman                                                                                   |          |
| ch1mod                     | ChMod_r05                                                                                           |          |
| ch2d_at                    | OMIT                                                                                                |          |
| ch2mod                     | OMIT                                                                                                |          |
| frqchs_at                  | OMIT                                                                                                |          |
| ma_at                      | MoblAllc_r26                                                                                        |          |
| strt                       | st                                                                                                  |          |
| rtdif                      | OMIT                                                                                                |          |
| ta                         | OMIT                                                                                                |          |
| frqsl_bt                   | OMIT                                                                                                |          |
| frql_bt                    | OMIT                                                                                                |          |
| ch1d_bt                    | ChDescrp_fhiei(TSPX_Chtp10, slot, tsc,<br>INT_TO_BIT(TSPX_Maio23, 6),<br>INT_TO_BIT(TSPX_Hsn23, 6)) |          |
| ch2d_bt                    | OMIT                                                                                                |          |
| frqchs_bt                  | OMIT                                                                                                |          |
| ma_bt                      | MoblAllc_r27                                                                                        |          |
| cphms                      | OMIT                                                                                                |          |
| <b>Detailed Comments:</b>  | used in TC_26_6_13_7 only.                                                                          |          |

| PDU Constraint Declaration |                                                                                                     |          |
|----------------------------|-----------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_37(slot: SN; tsc: TSC; st: STRT)                                                        |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                          |          |
| <b>Derivation Path:</b>    | HandOverCmd_36.                                                                                     |          |
| <b>Comments:</b>           | non synchronised for DCS                                                                            |          |
| Field Name                 | Field Value                                                                                         | Comments |
| cd                         | CellDescrp(1, 5, C_BCCHcarrierB_hod)                                                                |          |
| ch1d_at                    | ChDescrp_fh(TSPX_Chtp10, slot, tsc,<br>INT_TO_BIT(TSPX_Maio22, 6),<br>INT_TO_BIT(TSPX_Hsn22, 6))    |          |
| cchd                       | CellChDes_201_Bd                                                                                    |          |
| strt                       | st                                                                                                  |          |
| ch1d_bt                    | ChDescrp_fhiei(TSPX_Chtp10, slot, tsc,<br>INT_TO_BIT(TSPX_Maio23, 6),<br>INT_TO_BIT(TSPX_Hsn23, 6)) |          |
| <b>Detailed Comments:</b>  | used in TC_26_6_13_7 only.                                                                          |          |

| PDU Constraint Declaration |                                                                                               |          |
|----------------------------|-----------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_38(slot: SN; tsc: TSC; st: STRT)                                                  |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                    |          |
| <b>Derivation Path:</b>    |                                                                                               |          |
| <b>Comments:</b>           | non synchronised, no ciphering for GSM                                                        |          |
| Field Name                 | Field Value                                                                                   | Comments |
| ski                        | '0000'B                                                                                       |          |
| rrpd                       | '0110'B                                                                                       |          |
| mt                         | '00101011'B                                                                                   |          |
| cd                         | CellDescrp(1, 5, C_BCCHcarrierB_ho)                                                           |          |
| ch1d_at                    | ChDescrp_fh(TSPX_Chtp12, slot, tsc, INT_TO_BIT(TSPX_Maio26, 6), INT_TO_BIT(TSPX_Hsn26, 6))    |          |
| horf                       | TSPX_HoRefA                                                                                   |          |
| pcmd                       | Pcmd_19(INT_TO_BIT(TSPX_PwrlvID, 5))                                                          |          |
| synchi                     | Synchi(C_not_report_otd, C_non_synchronized)                                                  |          |
| frqsl_at                   | OMIT                                                                                          |          |
| frql_at                    | OMIT                                                                                          |          |
| cchd                       | CellChDes_20_Bman                                                                             |          |
| ch1mod                     | ChMod_r06                                                                                     |          |
| ch2d_at                    | OMIT                                                                                          |          |
| ch2mod                     | OMIT                                                                                          |          |
| frqchs_at                  | OMIT                                                                                          |          |
| ma_at                      | MoblAllc_r30                                                                                  |          |
| strt                       | st                                                                                            |          |
| rtdif                      | OMIT                                                                                          |          |
| ta                         | OMIT                                                                                          |          |
| frqsl_bt                   | OMIT                                                                                          |          |
| frql_bt                    | OMIT                                                                                          |          |
| ch1d_bt                    | ChDescrp_fhiei(TSPX_Chtp12, slot, tsc, INT_TO_BIT(TSPX_Maio27, 6), INT_TO_BIT(TSPX_Hsn27, 6)) |          |
| ch2d_bt                    | OMIT                                                                                          |          |
| frqchs_bt                  | OMIT                                                                                          |          |
| ma_bt                      | MoblAllc_r31                                                                                  |          |
| cphms                      | OMIT                                                                                          |          |
| <b>Detailed Comments:</b>  | used in TC_26_6_13_8 only.                                                                    |          |

| PDU Constraint Declaration |                                                                                               |          |
|----------------------------|-----------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_39(slot: SN; tsc: TSC; st: STRT)                                                  |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                    |          |
| <b>Derivation Path:</b>    | HandOverCmd_38.                                                                               |          |
| <b>Comments:</b>           | non synchronised, no ciphering for DCS                                                        |          |
| Field Name                 | Field Value                                                                                   | Comments |
| cd                         | CellDescrp(1, 5, C_BCCHcarrierB_hod)                                                          |          |
| ch1d_at                    | ChDescrp_fh(TSPX_Chtp12, slot, tsc, INT_TO_BIT(TSPX_Maio26, 6), INT_TO_BIT(TSPX_Hsn26, 6))    |          |
| cchd                       | CellChDes_201_Bd                                                                              |          |
| strt                       | st                                                                                            |          |
| ch1d_bt                    | ChDescrp_fhiei(TSPX_Chtp12, slot, tsc, INT_TO_BIT(TSPX_Maio27, 6), INT_TO_BIT(TSPX_Hsn27, 6)) |          |
| <b>Detailed Comments:</b>  | used in TC_26_6_13_7 only.                                                                    |          |



| PDU Constraint Declaration |                                                                 |          |
|----------------------------|-----------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_inv_01(slot: SN; tsc: TSC)                          |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                      |          |
| <b>Derivation Path:</b>    |                                                                 |          |
| <b>Comments:</b>           | An invalid HANOVER COMMAND containing incorrect skip indicator. |          |
| Field Name                 | Field Value                                                     | Comments |
| ski                        | '0101'B                                                         |          |
| rrpd                       | '0110'B                                                         |          |
| mt                         | '00101011'B                                                     |          |
| cd                         | CellDescrp(1, 3, C_arfcnA)                                      |          |
| ch1d_at                    | ChDescrp_nfh('00001'B, slot, tsc, C_arfcnA)                     |          |
| horf                       | '00000001'B                                                     |          |
| pcmd                       | Pcmd_19('01000'B)                                               |          |
| synchi                     | OMIT                                                            |          |
| frqsl_at                   | OMIT                                                            |          |
| frql_at                    | OMIT                                                            |          |
| cchd                       | OMIT                                                            |          |
| ch1mod                     | OMIT                                                            |          |
| ch2d_at                    | OMIT                                                            |          |
| ch2mod                     | OMIT                                                            |          |
| frqchs_at                  | OMIT                                                            |          |
| ma_at                      | OMIT                                                            |          |
| strt                       | OMIT                                                            |          |
| rtdif                      | OMIT                                                            |          |
| ta                         | OMIT                                                            |          |
| frqsl_bt                   | OMIT                                                            |          |
| frql_bt                    | OMIT                                                            |          |
| ch1d_bt                    | OMIT                                                            |          |
| ch2d_bt                    | OMIT                                                            |          |
| frqchs_bt                  | OMIT                                                            |          |
| ma_bt                      | OMIT                                                            |          |
| cphms                      | OMIT                                                            |          |
| <b>Detailed Comments:</b>  |                                                                 |          |

| PDU Constraint Declaration |                                                                                                      |          |
|----------------------------|------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmd_inv_02(slot: SN; tsc: TSC)                                                               |          |
| <b>PDU Type:</b>           | HO_CMD_PDU                                                                                           |          |
| <b>Derivation Path:</b>    | HandOverCmd_inv_01.                                                                                  |          |
| <b>Comments:</b>           | HANOVER COMMAND which contains, in the non-imperative part, an IE encoded as comprehension required. |          |
| Field Name                 | Field Value                                                                                          | Comments |
| ski                        | '0000'B                                                                                              |          |
| ch1d_at                    | ChDescrp_nfh('00001'B, slot, tsc, C_arfcnA)                                                          |          |
| synchi                     | Synchi_01                                                                                            |          |
| frqsl_at                   | Frql_01                                                                                              |          |
| <b>Detailed Comments:</b>  |                                                                                                      |          |

| PDU Constraint Declaration |                                                  |          |
|----------------------------|--------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmp_01                                   |          |
| <b>PDU Type:</b>           | HO_COM_PDU                                       |          |
| <b>Derivation Path:</b>    |                                                  |          |
| <b>Comments:</b>           | To match any received HANDOVER COMPLETE message. |          |
| Field Name                 | Field Value                                      | Comments |
| ski                        | '0000'B                                          |          |
| rrpd                       | '0110'B                                          |          |
| mt                         | '00101100'B                                      |          |
| rrcau                      | ?                                                |          |
| motdif                     | *                                                |          |
| <b>Detailed Comments:</b>  |                                                  |          |

| PDU Constraint Declaration |                                                                                |          |
|----------------------------|--------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmp_02                                                                 |          |
| <b>PDU Type:</b>           | HO_COM_PDU                                                                     |          |
| <b>Derivation Path:</b>    | HandOverCmp_01.                                                                |          |
| <b>Comments:</b>           | To match a received HANDOVER COMPLETE message containing real time difference. |          |
| Field Name                 | Field Value                                                                    | Comments |
| motdif                     | Mtdif_02                                                                       |          |
| <b>Detailed Comments:</b>  |                                                                                |          |

| PDU Constraint Declaration |                                                                                                                                          |          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmp_03                                                                                                                           |          |
| <b>PDU Type:</b>           | HO_COM_PDU                                                                                                                               |          |
| <b>Derivation Path:</b>    |                                                                                                                                          |          |
| <b>Comments:</b>           | To match a received HANDOVER COMPLETE message with mobile time difference<br>$=((2 * TSPX\_k + TPSX\_y) \text{ mod } 2\ 097\ 152) \pm 2$ |          |
| Field Name                 | Field Value                                                                                                                              | Comments |
| ski                        | '0000'B                                                                                                                                  |          |
| rrpd                       | '0110'B                                                                                                                                  |          |
| mt                         | '00101100'B                                                                                                                              |          |
| rrcau                      | ?                                                                                                                                        |          |
| motdif                     | Mtdif_01                                                                                                                                 |          |
| <b>Detailed Comments:</b>  |                                                                                                                                          |          |

| PDU Constraint Declaration |                                                                                |          |
|----------------------------|--------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOverCmp_04                                                                 |          |
| <b>PDU Type:</b>           | HO_COM_PDU                                                                     |          |
| <b>Derivation Path:</b>    | HandOverCmp_01.                                                                |          |
| <b>Comments:</b>           | To match a received HANDOVER COMPLETE message containing real time difference. |          |
| Field Name                 | Field Value                                                                    | Comments |
| motdif                     | Mtdif_03                                                                       |          |
| <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>Comments:</b>           | A basic received constraint for HANDOVER COMPLETE message. |          |
| Field Name                 | Field Value                                                | Comments |
| ski                        | '0000'B                                                    |          |
| rrpd                       | '0110'B                                                    |          |
| mt                         | '00101100'B                                                |          |
| rrcau                      | '00000000'B                                                |          |
| motdif                     | *                                                          |          |
| <b>Detailed Comments:</b>  |                                                            |          |

| PDU Constraint Declaration |                                                   |          |
|----------------------------|---------------------------------------------------|----------|
| <b>Constraint Name:</b>    | HandOvFail_01                                     |          |
| <b>PDU Type:</b>           | HOFL_PDU                                          |          |
| <b>Derivation Path:</b>    |                                                   |          |
| <b>Comments:</b>           | A HANDOVER FAILURE message matching any RR cause. |          |
| Field Name                 | Field Value                                       | 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>Comments:</b>           | A HANDOVER FAILURE message matching any abnormal release RR cause. |          |
| Field Name                 | Field Value                                                        | Comments |
| ski                        | '0000'B                                                            |          |
| 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>Comments:</b>           |                    |          |
| Field Name                 | Field Value        | Comments |
| ti                         | Ti                 |          |
| ccpd                       | '0011'B            |          |
| mt                         | '0?011000'B        |          |
| <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>Comments:</b>           |                       |          |
| Field Name                 | Field Value           | Comments |
| ti                         | Ti                    |          |
| ccpd                       | '0011'B               |          |
| mt                         | '00011001'B           |          |
| <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>Comments:</b>           | An IDENTITY RESPONSE message which matches any mobile identity |          |
| Field Name                 | Field Value                                                    | 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>Comments:</b>           | An IDENTITY RESPONSE message which matches TMSI of the MS under test |          |
| Field Name                 | Field Value                                                          | 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>Comments:</b>           | An IDENTITY RESPONSE message which matches the given MI of the MS under test. |          |
| Field Name                 | Field Value                                                                   | 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>Comments:</b>           | An IDENTITY REQUEST message with specified identity type. |          |
| Field Name                 | Field Value                                               | 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>Comments:</b>           | An invalid IDENTITY REQUEST message with incorrect skip indicator. |          |
| Field Name                 | Field Value                                                        | Comments |
| ski                        | INT_TO_BIT(skip, 4)                                                |          |
| mmpd                       | '0101'B                                                            |          |
| mt                         | '00011000'B                                                        |          |
| shoct                      | '0000'B                                                            |          |
| idtype                     | '0001'B                                                            |          |
| <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>Comments:</b>           | An invalid IDENTITY REQUEST message of which the identity type is coded as reserved value |          |
| Field Name                 | Field Value                                                                               | Comments |
| ski                        | '0000'B                                                                                   |          |
| mmpd                       | '0101'B                                                                                   |          |
| mt                         | '00011000'B                                                                               |          |
| shoct                      | '0000'B                                                                                   |          |
| idtype                     | '1111'B                                                                                   |          |
| <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>Comments:</b>           | An invalid IDENTITY REQUEST message containing arbitrary spare bits |          |
| Field Name                 | Field Value                                                         | Comments |
| ski                        | '0000'B                                                             |          |
| mmpd                       | '0101'B                                                             |          |
| mt                         | '00011000'B                                                         |          |
| shoct                      | '1010'B                                                             |          |
| idtype                     | '1100'B                                                             |          |
| <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>Comments:</b>           | An IMMEDIATE ASSIGNMENT message to assign SDCCH/4 channel.                                     |          |
| Field Name                 | Field Value                                                                                    | Comments |
| l2_pl                      | '2D'O                                                                                          |          |
| ski                        | '0000'B                                                                                        |          |
| rrpd                       | '0110'B                                                                                        |          |
| mt                         | '00111111'B                                                                                    |          |
| shoct                      | '0000'B                                                                                        |          |
| pm                         | Pm(C_normal_paging)                                                                            |          |
| chd                        | ChDescrp_nfh(INT_TO_BIT((4 + BIT_TO_INT(sub)), 5), slot, tsc, par_arfcn)                       |          |
| rqr                        | Rqr2(Rr, Fn)                                                                                   |          |
| ta                         | ta                                                                                             |          |
| ma                         | MoblAllc_01                                                                                    |          |
| strt                       | OMIT                                                                                           |          |
| iaroct                     | laRestOct_01                                                                                   |          |
| <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>Comments:</b>                                   | An IMMEDIATE ASSIGNMENT message to assign a frequency hopping channel. |          |
| Field Name                                         | Field Value                                                            | Comments |
| l2_pl                                              | '4D'O                                                                  |          |
| ski                                                | '0000'B                                                                |          |
| rrpd                                               | '0110'B                                                                |          |
| mt                                                 | '00111111'B                                                            |          |
| shoct                                              | '0000'B                                                                |          |
| pm                                                 | Pm(C_normal_paging)                                                    |          |
| chd                                                | chd                                                                    |          |
| rqr                                                | Rqr2(Rr, Fn)                                                           |          |
| ta                                                 | ta                                                                     |          |
| ma                                                 | ma                                                                     |          |
| strt                                               | OMIT                                                                   |          |
| iaroct                                             | laRestOct_06                                                           |          |
| <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>Comments:</b>           | An IMMEDIATE ASSIGNMENT message to assign TCH/F or TCH/H channel.                                       |          |
| Field Name                 | Field Value                                                                                             | Comments |
| l2_pl                      | '2D'O                                                                                                   |          |
| ski                        | '0000'B                                                                                                 |          |
| rrpd                       | '0110'B                                                                                                 |          |
| mt                         | '00111111'B                                                                                             |          |
| shoct                      | '0000'B                                                                                                 |          |
| pm                         | Pm(pgm)                                                                                                 |          |
| chd                        | ChDescrp_nfh(type, slot, tsc, arfcn)                                                                    |          |
| rqr                        | Rqr2(Rr, Fn)                                                                                            |          |
| ta                         | ta                                                                                                      |          |
| ma                         | MoblAlc_01                                                                                              |          |
| strt                       | OMIT                                                                                                    |          |
| iaroct                     | laRestOct_01                                                                                            |          |
| <b>Detailed Comments:</b>  |                                                                                                         |          |

| PDU Constraint Declaration |                                                                                                                      |          |
|----------------------------|----------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | ImmAsgn_221(Rr: BITSTRING; Fn: FN; ts_ccch: SN; tsc: TSC; par_chtype: CH_TDMA; maio: MAIO; hsn: HSN; ta: TA; ma: MA) |          |
| <b>PDU Type:</b>           | IMMASS_PDU                                                                                                           |          |
| <b>Derivation Path:</b>    |                                                                                                                      |          |
| <b>Comments:</b>           | An IMMEDIATE ASSIGNMENT message.                                                                                     |          |
| Field Name                 | Field Value                                                                                                          | Comments |
| l2_pl                      | OC_IntToOct(((11 + OC_OctToInt(ma.iel)) * 4) + 1, 1)                                                                 |          |
| ski                        | '0000'B                                                                                                              |          |
| rrpd                       | '0110'B                                                                                                              |          |
| mt                         | '00111111'B                                                                                                          |          |
| shoct                      | '0000'B                                                                                                              |          |
| pm                         | Pm(C_normal_paging)                                                                                                  |          |
| chd                        | ChDescrp_fh(par_chtype, ts_ccch, tsc, maio, hsn)                                                                     |          |
| rqr                        | Rqr2(Rr, Fn)                                                                                                         |          |
| ta                         | ta                                                                                                                   |          |
| ma                         | ma                                                                                                                   |          |
| strt                       | OMIT                                                                                                                 |          |
| iaroct                     | laRestOct(ma)                                                                                                        |          |
| <b>Detailed Comments:</b>  |                                                                                                                      |          |

| 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>Comments:</b>           | An IMMEDIATE ASSIGNMENT message to assign SDCCH/8 NonFH channel in any cell.     |          |
| Field Name                 | Field Value                                                                      | Comments |
| l2_pl                      | '2D'O                                                                            |          |
| ski                        | '0000'B                                                                          |          |
| rrpd                       | '0110'B                                                                          |          |
| mt                         | '00111111'B                                                                      |          |
| shoct                      | '0000'B                                                                          |          |
| pm                         | Pm(C_normal_paging)                                                              |          |
| chd                        | ChDescrip_sdcch8_nfh(ts_ccch,<br>TSPX_TscDef, TSPX_SDCCH8SubDef,<br>par_arfcn)   |          |
| rqr                        | Rqr2(Rr, Fn)                                                                     |          |
| ta                         | ta                                                                               |          |
| ma                         | MobAlloc_01                                                                      |          |
| strt                       | OMIT                                                                             |          |
| iaroct                     | laRestOct_01                                                                     |          |
| <b>Detailed Comments:</b>  |                                                                                  |          |

| PDU Constraint Declaration |                                                                                              |          |
|----------------------------|----------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | ImmAsgn_E_01(Rr: BITSTRING; Fn: FN;ts_ccch: BITSTRING; tsc: TSC; par_arfcn: INTEGER; ta: TA) |          |
| <b>PDU Type:</b>           | IMMASS_PDU                                                                                   |          |
| <b>Derivation Path:</b>    |                                                                                              |          |
| <b>Comments:</b>           | An IMMEDIATE ASSIGNMENT message to assign SDCCH/8 NonFH channel in any cell.                 |          |
| Field Name                 | Field Value                                                                                  | Comments |
| l2_pl                      | '2D'O                                                                                        |          |
| ski                        | '0000'B                                                                                      |          |
| rrpd                       | '0110'B                                                                                      |          |
| mt                         | '00111111'B                                                                                  |          |
| shoct                      | '0000'B                                                                                      |          |
| pm                         | Pm(C_normal_paging)                                                                          |          |
| chd                        | ChDescrip_sdcch8_nfh(ts_ccch, tsc,<br>TSPX_SDCCH8SubA, par_arfcn)                            |          |
| rqr                        | Rqr2(Rr, Fn)                                                                                 |          |
| ta                         | ta                                                                                           |          |
| ma                         | MobAlloc_01                                                                                  |          |
| strt                       | OMIT                                                                                         |          |
| iaroct                     | laRestOct_01                                                                                 |          |
| <b>Detailed Comments:</b>  |                                                                                              |          |



| 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>Comments:</b>           | An IMMEDIATE ASSIGNMENT message to assign SDCCH/8 FH channel in EGSM cases.                                           |          |
| Field Name                 | Field Value                                                                                                           | Comments |
| l2_pl                      | '31'O                                                                                                                 |          |
| ski                        | '0000'B                                                                                                               |          |
| rrpd                       | '0110'B                                                                                                               |          |
| mt                         | '00111111'B                                                                                                           |          |
| shoct                      | '0000'B                                                                                                               |          |
| pm                         | Pm(C_normal_paging)                                                                                                   |          |
| chd                        | ChDescrp_sdcch8_fh(ts_ccch, tsc,<br>TSPX_SDCCH8SubB,<br>INT_TO_BIT((TSPX_MAIO MOD 4), 6),<br>INT_TO_BIT(TSPX_HSN, 6)) |          |
| rqr                        | Rqr2(Rr, Fn)                                                                                                          |          |
| ta                         | ta                                                                                                                    |          |
| ma                         | MoblAllc_281e                                                                                                         |          |
| strt                       | OMIT                                                                                                                  |          |
| iaroct                     | laRestOct_02                                                                                                          |          |
| <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>Comments:</b>           | An invalid IMMEDIATE ASSIGNMENT message with unknown skip indicator ('0001'B)            |          |
| Field Name                 | Field Value                                                                              | Comments |
| l2_pl                      | '2D'O                                                                                    |          |
| ski                        | '0001'B                                                                                  |          |
| rrpd                       | '0110'B                                                                                  |          |
| mt                         | '00111111'B                                                                              |          |
| shoct                      | '0000'B                                                                                  |          |
| pm                         | Pm(C_normal_paging)                                                                      |          |
| chd                        | ChDescrp_nfh(INT_TO_BIT((4 +<br>BIT_TO_INT(TSPX_SDCCH4SubDef)),<br>5), slot, tsc, arfcn) |          |
| rqr                        | Rqr2(Rr, Fn)                                                                             |          |
| ta                         | ta                                                                                       |          |
| ma                         | MoblAllc_01                                                                              |          |
| strt                       | OMIT                                                                                     |          |
| iaroct                     | laRestOct_01                                                                             |          |
| <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>Comments:</b>           | An invalid IMMEDIATE ASSIGNMENT message containing arbitrary spare bits                   |          |
| Field Name                 | Field Value                                                                               | Comments |
| l2_pl                      | '2D'O                                                                                     |          |
| ski                        | '0000'B                                                                                   |          |
| rrpd                       | '0110'B                                                                                   |          |
| mt                         | '00111111'B                                                                               |          |
| shoct                      | '1010'B                                                                                   |          |
| pm                         | Pm_02                                                                                     |          |
| chd                        | ChDescrip_nfh(INT_TO_BIT((4 +<br>BIT_TO_INT(TSPX_SDCCH4SubDef)),<br>5), slot, tsc, arfcn) |          |
| rqr                        | Rqr2(Rr, Fn)                                                                              |          |
| ta                         | ta                                                                                        |          |
| ma                         | MobAlloc_01                                                                               |          |
| strt                       | OMIT                                                                                      |          |
| iaroct                     | laRestOct_05                                                                              |          |
| <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>Comments:</b>           | An IMMEDIATE ASSIGNMENT message.                   |          |
| Field Name                 | Field Value                                        | Comments |
| l2_pl                      | '2D'O                                              |          |
| ski                        | '0000'B                                            |          |
| rrpd                       | '0110'B                                            |          |
| mt                         | '00111111'B                                        |          |
| shoct                      | '0000'B                                            |          |
| pm                         | Pm(C_normal_paging)                                |          |
| chd                        | chd                                                |          |
| rqr                        | Rqr2(Rr, Fn)                                       |          |
| ta                         | ta                                                 |          |
| ma                         | MobAlloc_01                                        |          |
| strt                       | OMIT                                               |          |
| iaroct                     | laRestOct_01                                       |          |
| <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>Comments:</b>           | An IMMEDIATE ASSIGNMENT message to assign SDCCH/8 channel.                               |          |
| Field Name                 | Field Value                                                                              | Comments |
| l2_pl                      | '2D'O                                                                                    |          |
| ski                        | '0000'B                                                                                  |          |
| rrpd                       | '0110'B                                                                                  |          |
| mt                         | '00111111'B                                                                              |          |
| shoct                      | '0000'B                                                                                  |          |
| pm                         | Pm(C_normal_paging)                                                                      |          |
| chd                        | ChDescrp_sdcch8_nfh(slot, tsc, sub, arfcn)                                               |          |
| rqr                        | Rqr2(Rr, Fn)                                                                             |          |
| ta                         | ta                                                                                       |          |
| ma                         | MoblAllc_01                                                                              |          |
| strt                       | OMIT                                                                                     |          |
| iaroct                     | laRestOct_01                                                                             |          |
| <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>Comments:</b>           | An IMMEDIATE ASSIGNMENT message to assign TCH/F channel with a time advance of 30 bit periods. |          |
| Field Name                 | Field Value                                                                                    | Comments |
| l2_pl                      | '2D'O                                                                                          |          |
| ski                        | '0000'B                                                                                        |          |
| rrpd                       | '0110'B                                                                                        |          |
| mt                         | '00111111'B                                                                                    |          |
| shoct                      | '0000'B                                                                                        |          |
| pm                         | Pm(C_normal_paging)                                                                            |          |
| chd                        | chd                                                                                            |          |
| rqr                        | Rqr2(Rr, Fn)                                                                                   |          |
| ta                         | ta                                                                                             |          |
| ma                         | MoblAllc_01                                                                                    |          |
| strt                       | OMIT                                                                                           |          |
| iaroct                     | laRestOct_01                                                                                   |          |
| <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>Comments:</b>           | An IMMEDIATE ASSIGNMENT message to assign TCH/H channel with a time advance of 30 bit periods. |          |
| Field Name                 | Field Value                                                                                    | Comments |
| l2_pl                      | '2D'O                                                                                          |          |
| ski                        | '0000'B                                                                                        |          |
| rrpd                       | '0110'B                                                                                        |          |
| mt                         | '00111111'B                                                                                    |          |
| shoct                      | '0000'B                                                                                        |          |
| pm                         | Pm(C_normal_paging)                                                                            |          |
| chd                        | chd                                                                                            |          |
| rqr                        | Rqr2(Rr, Fn)                                                                                   |          |
| ta                         | ta                                                                                             |          |
| ma                         | MoblAllc_01                                                                                    |          |
| strt                       | OMIT                                                                                           |          |
| iaroct                     | laRestOct_01                                                                                   |          |
| <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>Comments:</b>           | An IMMEDIATE ASSIGNMENT message to assign SDCCH/8 channel for TC_26_6_13_1.                         |          |
| Field Name                 | Field Value                                                                                         | Comments |
| l2_pl                      | '39'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                         | MoblAllc_r05                                                                                        |          |
| strt                       | OMIT                                                                                                |          |
| iaroct                     | laRestOct_08                                                                                        |          |
| <b>Detailed Comments:</b>  |                                                                                                     |          |

| PDU Constraint Declaration |                                                                                                     |          |
|----------------------------|-----------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | ImmAsgn_r28(Rr: BITSTRING; Fn: FN; slot: SN; tsc: TSC; ta: TA)                                      |          |
| <b>PDU Type:</b>           | IMMASS_PDU                                                                                          |          |
| <b>Derivation Path:</b>    | ImmAsgn_r27.                                                                                        |          |
| <b>Comments:</b>           | An IMMEDIATE ASSIGNMENT message to assign SDCCH/8 channel for TC_26_6_13_2 .                        |          |
| Field Name                 | Field Value                                                                                         | Comments |
| chd                        | ChDescrp_sdcch8_fh(slot, tsc, TSPX_SDCCH8SubB, INT_TO_BIT(TSPX_Maio4, 6), INT_TO_BIT(TSPX_Hsn4, 6)) |          |
| rqr                        | Rqr2(Rr, Fn)                                                                                        |          |
| ta                         | ta                                                                                                  |          |
| ma                         | MoblAllc_r08                                                                                        |          |
| <b>Detailed Comments:</b>  |                                                                                                     |          |

| 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>Comments:</b>           | An IMMEDIATE ASSIGNMENT message to assign the channel defined by PIXIT for TC_26_6_13_3.      |          |
| Field Name                 | Field Value                                                                                   | Comments |
| l2_pl                      | '39'O                                                                                         |          |
| ski                        | '0000'B                                                                                       |          |
| rrpd                       | '0110'B                                                                                       |          |
| mt                         | '00111111'B                                                                                   |          |
| shoct                      | '0000'B                                                                                       |          |
| pm                         | Pm(C_normal_paging)                                                                           |          |
| chd                        | ChDescrp_fh(TSPX_Chtp3, slot, tsc,<br>INT_TO_BIT(TSPX_Maio6, 6),<br>INT_TO_BIT(TSPX_Hsn6, 6)) |          |
| rqr                        | Rqr2(Rr, Fn)                                                                                  |          |
| ta                         | ta                                                                                            |          |
| ma                         | MoblAlc_r10                                                                                   |          |
| strt                       | OMIT                                                                                          |          |
| iaroct                     | laRestOct_08                                                                                  |          |
| <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>    | ImmAsgn_r27.                                                                                    |          |
| <b>Comments:</b>           | An IMMEDIATE ASSIGNMENT message for TC_26_6_13_4.                                               |          |
| Field Name                 | Field Value                                                                                     | Comments |
| chd                        | ChDescrp_fh(TSPX_Chtp5, slot, tsc,<br>INT_TO_BIT(TSPX_Maio10, 6),<br>INT_TO_BIT(TSPX_Hsn10, 6)) |          |
| rqr                        | Rqr2(Rr, Fn)                                                                                    |          |
| ta                         | ta                                                                                              |          |
| ma                         | MoblAlc_r14                                                                                     |          |
| <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>    | ImmAsgn_r27.                                                                                                   |          |
| <b>Comments:</b>           | An IMMEDIATE ASSIGNMENT message to assign SDCCH/8 channel for TC_26_6_13_5.                                    |          |
| Field Name                 | Field Value                                                                                                    | Comments |
| chd                        | ChDescrp_sdcch8_fh(slot, tsc,<br>TSPX_SDCCH8SubB,<br>INT_TO_BIT(TSPX_Maio14, 6),<br>INT_TO_BIT(TSPX_Hsn14, 6)) |          |
| rqr                        | Rqr2(Rr, Fn)                                                                                                   |          |
| ta                         | ta                                                                                                             |          |
| ma                         | MoblAlc_r18                                                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                                                                |          |

| PDU Constraint Declaration |                                                                                                       |          |
|----------------------------|-------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | ImmAsgn_r32(Rr: BITSTRING; Fn: FN; slot: SN; tsc: TSC; ta: TA)                                        |          |
| <b>PDU Type:</b>           | IMMASS_PDU                                                                                            |          |
| <b>Derivation Path:</b>    | ImmAsgn_r27.                                                                                          |          |
| <b>Comments:</b>           | An IMMEDIATE ASSIGNMENT message to assign SDCCH/8 channel for TC_26_6_13_6.                           |          |
| Field Name                 | Field Value                                                                                           | Comments |
| chd                        | ChDescrp_sdcch8_fh(slot, tsc, TSPX_SDCCH8SubC, INT_TO_BIT(TSPX_Maio17, 6), INT_TO_BIT(TSPX_Hsn17, 6)) |          |
| rqr                        | Rqr2(Rr, Fn)                                                                                          |          |
| ta                         | ta                                                                                                    |          |
| ma                         | MoblAllc_r21                                                                                          |          |
| <b>Detailed Comments:</b>  |                                                                                                       |          |

| 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>    | ImmAsgn_r27.                                                                              |          |
| <b>Comments:</b>           | An IMMEDIATE ASSIGNMENT message to assign the channel defined by PIXIT for TC_26_6_13_7.  |          |
| Field Name                 | Field Value                                                                               | Comments |
| chd                        | ChDescrp_fh(TSPX_Chtp9, slot, tsc, INT_TO_BIT(TSPX_Maio20, 6), INT_TO_BIT(TSPX_Hsn20, 6)) |          |
| rqr                        | Rqr2(Rr, Fn)                                                                              |          |
| ta                         | ta                                                                                        |          |
| ma                         | MoblAllc_r24                                                                              |          |
| <b>Detailed Comments:</b>  |                                                                                           |          |

| PDU Constraint Declaration |                                                                                            |          |
|----------------------------|--------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | ImmAsgn_r34(Rr: BITSTRING; Fn: FN; slot: SN; tsc: TSC; ta: TA)                             |          |
| <b>PDU Type:</b>           | IMMASS_PDU                                                                                 |          |
| <b>Derivation Path:</b>    | ImmAsgn_r27.                                                                               |          |
| <b>Comments:</b>           | An IMMEDIATE ASSIGNMENT message to assign the channel defined by PIXIT for TC_26_6_13_8.   |          |
| Field Name                 | Field Value                                                                                | Comments |
| chd                        | ChDescrp_fh(TSPX_Chtp11, slot, tsc, INT_TO_BIT(TSPX_Maio24, 6), INT_TO_BIT(TSPX_Hsn24, 6)) |          |
| rqr                        | Rqr2(Rr, Fn)                                                                               |          |
| ta                         | ta                                                                                         |          |
| ma                         | MoblAllc_r28                                                                               |          |
| <b>Detailed Comments:</b>  |                                                                                            |          |

| PDU Constraint Declaration |                                                                                                  |          |
|----------------------------|--------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | ImmAsgn_r35(Rr: BITSTRING; Fn: FN; slot: SN; tsc: TSC; ta: TA; starttm: STRT)                    |          |
| <b>PDU Type:</b>           | IMMASS_PDU                                                                                       |          |
| <b>Derivation Path:</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                                                                                      | Comments |
| l2_pl                      | '45'O                                                                                            |          |
| ski                        | '0000'B                                                                                          |          |
| rrpd                       | '0110'B                                                                                          |          |
| mt                         | '00111111'B                                                                                      |          |
| shoct                      | '0000'B                                                                                          |          |
| pm                         | Pm(C_normal_paging)                                                                              |          |
| chd                        | ChDescrp_fh(TSPX_Chtp13, slot, tsc,<br>INT_TO_BIT(TSPX_Maio28, 6),<br>INT_TO_BIT(TSPX_Hsn28, 6)) |          |
| rqr                        | Rqr2(Rr, Fn)                                                                                     |          |
| ta                         | ta                                                                                               |          |
| ma                         | MobIAlIc_r32                                                                                     |          |
| strt                       | starttm                                                                                          |          |
| iaroct                     | IaRestOct_03                                                                                     |          |
| <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)                    |          |
| <b>PDU Type:</b>           | IMMASS_PDU                                                                                       |          |
| <b>Derivation Path:</b>    | ImmAsgn_r35.                                                                                     |          |
| <b>Comments:</b>           | An IMMEDIATE ASSIGNMENT message to assign the channel defined by PIXIT for TC_26_6_13_10.        |          |
| Field Name                 | Field Value                                                                                      | Comments |
| l2_pl                      | '45'O                                                                                            |          |
| chd                        | ChDescrp_fh(TSPX_Chtp14, slot, tsc,<br>INT_TO_BIT(TSPX_Maio30, 6),<br>INT_TO_BIT(TSPX_Hsn30, 6)) |          |
| rqr                        | Rqr2(Rr, Fn)                                                                                     |          |
| ta                         | ta                                                                                               |          |
| ma                         | MobIAlIc_r33                                                                                     |          |
| strt                       | starttm                                                                                          |          |
| iaroct                     | IaRestOct_04                                                                                     |          |
| <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>Comments:</b>           | An IMMEDIATE ASSIGNMENT message to assign SDCCH8 channel                                      |          |
| Field Name                 | Field Value                                                                                   | Comments |
| l2_pl                      | '2D'O                                                                                         |          |
| ski                        | '0000'B                                                                                       |          |
| rrpd                       | '0110'B                                                                                       |          |
| mt                         | '00111111'B                                                                                   |          |
| shoct                      | '0000'B                                                                                       |          |
| pm                         | Pm(C_normal_paging)                                                                           |          |
| chd                        | ChDescrp_sdcch8_nfh(slot, tsc, subch, arfcn)                                                  |          |
| rqr                        | Rqr2(Rr, Fn)                                                                                  |          |
| ta                         | ta                                                                                            |          |
| ma                         | MoblAllic_01                                                                                  |          |
| strt                       | OMIT                                                                                          |          |
| iaxroct                    | laRestOct_01                                                                                  |          |
| <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>Comments:</b>           | An IMMEDIATE ASSIGNMENT EXTENDED message to assign SDCCH/8 channel.                             |          |
| Field Name                 | Field Value                                                                                     | Comments |
| l2_pl                      | '49'O                                                                                           |          |
| ski                        | '0000'B                                                                                         |          |
| rrpd                       | '0110'B                                                                                         |          |
| mt                         | '00111001'B                                                                                     |          |
| shoct                      | '0000'B                                                                                         |          |
| pm                         | Pm(C_extended_paging)                                                                           |          |
| chd1                       | ChDescrp_sdcch8_nfh(slot, tsc, sub1, arfcn)                                                     |          |
| rqr1                       | Rqr2(Rr, Fn)                                                                                    |          |
| ta1                        | ta                                                                                              |          |
| chd2                       | ChDescrp_sdcch8_nfh(slot, tsc, sub2, arfcn)                                                     |          |
| rqr2                       | Rqr2(Rr, Fn)                                                                                    |          |
| ta2                        | ta                                                                                              |          |
| ma                         | MoblAllic_01                                                                                    |          |
| strt                       | OMIT                                                                                            |          |
| iaxroct                    | '2B2B2B2B'O                                                                                     |          |
| <b>Detailed Comments:</b>  |                                                                                                 |          |



| PDU Constraint Declaration |                                                                                                                                                      |          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | ImmAsgnX_02(slot: SN; tsc: TSC; ta: TA; arfcn: INTEGER)                                                                                              |          |
| <b>PDU Type:</b>           | IMMASSX_PDU                                                                                                                                          |          |
| <b>Derivation Path:</b>    |                                                                                                                                                      |          |
| <b>Comments:</b>           | 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                                                                                                                                          | Comments |
| l2_pl                      | '49'O                                                                                                                                                |          |
| ski                        | '0000'B                                                                                                                                              |          |
| rrpd                       | '0110'B                                                                                                                                              |          |
| mt                         | '00111001'B                                                                                                                                          |          |
| shoct                      | '0000'B                                                                                                                                              |          |
| pm                         | Pm(C_reorg_paging)                                                                                                                                   |          |
| chd1                       | ChDescrp_sdcch8_nfh(slot, tsc, TSPX_SDCCH8SubA, arfcn)                                                                                               |          |
| rqr1                       | Rqr3                                                                                                                                                 |          |
| ta1                        | ta                                                                                                                                                   |          |
| chd2                       | ChDescrp_sdcch8_nfh(slot, tsc, TSPX_SDCCH8SubB, C_arfcnA)                                                                                            |          |
| rqr2                       | Rqr3                                                                                                                                                 |          |
| ta2                        | ta                                                                                                                                                   |          |
| ma                         | MobAllc_01                                                                                                                                           |          |
| strt                       | OMIT                                                                                                                                                 |          |
| iaxroct                    | '2B2B2B2B'O                                                                                                                                          |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                      |          |

| PDU Constraint Declaration |                                                                                                                                                      |          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | ImmAsgnX_03(slot: SN; tsc: TSC; ta: TA; arfcn: INTEGER)                                                                                              |          |
| <b>PDU Type:</b>           | IMMASSX_PDU                                                                                                                                          |          |
| <b>Derivation Path:</b>    |                                                                                                                                                      |          |
| <b>Comments:</b>           | 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                                                                                                                                          | Comments |
| l2_pl                      | '49'O                                                                                                                                                |          |
| ski                        | '0000'B                                                                                                                                              |          |
| rrpd                       | '0110'B                                                                                                                                              |          |
| mt                         | '00111001'B                                                                                                                                          |          |
| shoct                      | '0000'B                                                                                                                                              |          |
| pm                         | Pm(C_reorg_paging)                                                                                                                                   |          |
| chd1                       | ChDescrp_sdcch8_nfh(slot, tsc, TSPX_SDCCH8SubA, arfcn)                                                                                               |          |
| rqr1                       | Rqr3                                                                                                                                                 |          |
| ta1                        | ta                                                                                                                                                   |          |
| chd2                       | ChDescrp_sdcch8_nfh(slot, tsc, TSPX_SDCCH8SubB, 30)                                                                                                  |          |
| rqr2                       | Rqr3                                                                                                                                                 |          |
| ta2                        | ta                                                                                                                                                   |          |
| ma                         | MobAllc_01                                                                                                                                           |          |
| strt                       | OMIT                                                                                                                                                 |          |
| iaxroct                    | '2B2B2B2B'O                                                                                                                                          |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                      |          |

| PDU Constraint Declaration |                                                                                                                                                      |          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | ImmAsgnX_04(slot: SN; tsc: TSC; ta: TA; arfcn: INTEGER)                                                                                              |          |
| <b>PDU Type:</b>           | IMMASSX_PDU                                                                                                                                          |          |
| <b>Derivation Path:</b>    |                                                                                                                                                      |          |
| <b>Comments:</b>           | 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                                                                                                                                          | Comments |
| l2_pl                      | '49'O                                                                                                                                                |          |
| ski                        | '0000'B                                                                                                                                              |          |
| rrpd                       | '0110'B                                                                                                                                              |          |
| mt                         | '00111001'B                                                                                                                                          |          |
| shoct                      | '0000'B                                                                                                                                              |          |
| pm                         | Pm(C_reorg_paging)                                                                                                                                   |          |
| chd1                       | ChDescrp_sdcch8_nfh(slot, tsc, TSPX_SDCCH8SubA, arfcn)                                                                                               |          |
| rqr1                       | Rqr3                                                                                                                                                 |          |
| ta1                        | ta                                                                                                                                                   |          |
| chd2                       | ChDescrp_sdcch8_nfh(slot, tsc, TSPX_SDCCH8SubB, 30)                                                                                                  |          |
| rqr2                       | Rqr3                                                                                                                                                 |          |
| ta2                        | ta                                                                                                                                                   |          |
| ma                         | MoblAllc_01                                                                                                                                          |          |
| strt                       | OMIT                                                                                                                                                 |          |
| iaxroct                    | '2B2B2B2B'O                                                                                                                                          |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                      |          |

| 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>Comments:</b>           | An IMMEDIATE ASSIGNMENT message to assign SDCCH/4 channel.                                                 |          |
| Field Name                 | Field Value                                                                                                | Comments |
| l2_pl                      | '49'O                                                                                                      |          |
| 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)                                                                                           |          |
| ta2                        | ta                                                                                                         |          |
| ma                         | MoblAllc_01                                                                                                |          |
| strt                       | OMIT                                                                                                       |          |
| iaxroct                    | '2B2B2B2B'O                                                                                                |          |
| <b>Detailed Comments:</b>  |                                                                                                            |          |

| PDU Constraint Declaration |                                                                                            |          |
|----------------------------|--------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | ImmAsgnX_r02(Rr: BITSTRING; Fn: FN; Rr_9: BITSTRING; Fn_9: FN; slot: SN; tsc: TSC; ta: TA) |          |
| <b>PDU Type:</b>           | IMMASSX_PDU                                                                                |          |
| <b>Derivation Path:</b>    |                                                                                            |          |
| <b>Comments:</b>           | An IMMEDIATE ASSIGNMENT message to assign SDCCH/8 channel.                                 |          |
| Field Name                 | Field Value                                                                                | Comments |
| l2_pl                      | '49'O                                                                                      |          |
| ski                        | '0000'B                                                                                    |          |
| rrpd                       | '0110'B                                                                                    |          |
| mt                         | '00111001'B                                                                                |          |
| shoct                      | '0000'B                                                                                    |          |
| pm                         | Pm(C_normal_paging)                                                                        |          |
| chd1                       | ChDescrp_sdcch8_nfh(slot, tsc, TSPX_SDCCH8SubB, 30)                                        |          |
| rqr1                       | Rqr2(Rr, Fn)                                                                               |          |
| ta1                        | ta                                                                                         |          |
| chd2                       | ChDescrp_sdcch8_nfh(slot, tsc, TSPX_SDCCH8SubC, 30)                                        |          |
| rqr2                       | Rqr2(Rr_9, Fn_9)                                                                           |          |
| ta2                        | ta                                                                                         |          |
| ma                         | MoblAllc_01                                                                                |          |
| strt                       | OMIT                                                                                       |          |
| iaxroct                    | '2B2B2B2B'O                                                                                |          |
| <b>Detailed Comments:</b>  |                                                                                            |          |

| 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>Comments:</b>           | An IMMEDIATE ASSIGNMENT message to assign SDCCH/4 channel.                                       |          |
| Field Name                 | Field Value                                                                                      | Comments |
| l2_pl                      | '49'O                                                                                            |          |
| ski                        | '0000'B                                                                                          |          |
| rrpd                       | '0110'B                                                                                          |          |
| mt                         | '00111001'B                                                                                      |          |
| shoct                      | '0000'B                                                                                          |          |
| pm                         | Pm(C_extended_paging)                                                                            |          |
| chd1                       | ChDescrp_nfh(INT_TO_BIT((4 + BIT_TO_INT(sub1)), 5), slot, tsc, arfcn)                            |          |
| rqr1                       | Rqr2(Rr, Fn)                                                                                     |          |
| ta1                        | ta                                                                                               |          |
| chd2                       | ChDescrp_nfh(INT_TO_BIT((4 + BIT_TO_INT(sub2)), 5), slot, tsc, arfcn)                            |          |
| rqr2                       | Rqr2(Rr, Fn)                                                                                     |          |
| ta2                        | ta                                                                                               |          |
| ma                         | MoblAllc_01                                                                                      |          |
| strt                       | OMIT                                                                                             |          |
| iaxroct                    | '2B2B2B2B'O                                                                                      |          |
| <b>Detailed Comments:</b>  |                                                                                                  |          |

| PDU Constraint Declaration |                                                                       |          |
|----------------------------|-----------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | ImmAsgnRej_01(Rr: BITSTRING; Fn: FN)                                  |          |
| <b>PDU Type:</b>           | IMMASS_REJ_PDU                                                        |          |
| <b>Derivation Path:</b>    |                                                                       |          |
| <b>Comments:</b>           | An IMMEDIATE ASSIGNMENT REJECT message containing normal paging mode. |          |
| Field Name                 | Field Value                                                           | Comments |
| l2_pl                      | '4D'O                                                                 |          |
| ski                        | '0000'B                                                               |          |
| rrpd                       | '0110'B                                                               |          |
| mt                         | '00111010'B                                                           |          |
| shoct                      | '0000'B                                                               |          |
| pm                         | Pm(C_normal_paging)                                                   |          |
| 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                                                             |          |
| <b>Detailed Comments:</b>  |                                                                       |          |

| PDU Constraint Declaration |                                                                                                               |          |
|----------------------------|---------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | ImmAsgnRej_02(Rr: BITSTRING; Fn: FN)                                                                          |          |
| <b>PDU Type:</b>           | IMMASS_REJ_PDU                                                                                                |          |
| <b>Derivation Path:</b>    | ImmAsgnRej_01.                                                                                                |          |
| <b>Comments:</b>           | An IMMEDIATE ASSIGNMENT REJECT message in which only the third request reference addresses the MS under test. |          |
| Field Name                 | Field Value                                                                                                   | Comments |
| rqr1                       | Rqr1(Rr, Fn)                                                                                                  |          |
| wi1                        | '02'H                                                                                                         |          |
| rqr2                       | Rqr1(Rr, Fn)                                                                                                  |          |
| wi2                        | '02'H                                                                                                         |          |
| rqr3                       | Rqr2(Rr, Fn)                                                                                                  |          |
| wi3                        | '00'H                                                                                                         |          |
| rqr4                       | Rqr1(Rr, Fn)                                                                                                  |          |
| wi4                        | '02'H                                                                                                         |          |
| <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>Comments:</b>           | An IMMEDIATE ASSIGNMENT REJECT message containing normal paging mode and wait indication = 5 seconds. |          |
| Field Name                 | Field Value                                                                                           | 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>Comments:</b>           | An IMMEDIATE ASSIGNMENT REJECT message containing normal paging mode and wait indication = 6 seconds. |          |
| Field Name                 | Field Value                                                                                           | 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>Comments:</b>           | An invalid IMMEDIATE ASSIGNMENT REJECT message with skip indicator = 2, reject time = 255 s. |          |
| Field Name                 | Field Value                                                                                  | Comments |
| ski                        | '0010'B                                                                                      |          |
| rqr1                       | Rqr2(Rr, Fn)                                                                                 |          |
| wi1                        | 'FF'H                                                                                        |          |
| 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>Comments:</b>           | An invalid IMMEDIATE ASSIGNMENT REJECT message containing arbitrary spare bits |          |
| Field Name                 | Field Value                                                                    | Comments |
| shoct                      | '1010'B                                                                        |          |
| 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                                                                     |          |
| 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>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                                                                                                                  | Comments |
| l2_pl                      | '4D'O                                                                                                                        |          |
| 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>    | ImmAsgnRej_01.                                                        |          |
| <b>Comments:</b>           | An IMMEDIATE ASSIGNMENT REJECT message containing normal paging mode. |          |
| Field Name                 | Field Value                                                           | Comments |
| l2_pl                      | '4D'O                                                                 |          |
| ski                        | '0000'B                                                               |          |
| 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>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                                                                                                                                                                | Comments |
| l2_pl                      | '4D'O                                                                                                                                                                      |          |
| ski                        | '0000'B                                                                                                                                                                    |          |
| rrpd                       | '0110'B                                                                                                                                                                    |          |
| mt                         | '00111010'B                                                                                                                                                                |          |
| shoct                      | '0000'B                                                                                                                                                                    |          |
| pm                         | Pm(C_extended_paging)                                                                                                                                                      |          |
| rqr1                       | Rqr3                                                                                                                                                                       |          |
| wi1                        | '00'H                                                                                                                                                                      |          |
| rqr2                       | Rqr3                                                                                                                                                                       |          |
| wi2                        | '00'H                                                                                                                                                                      |          |
| rqr3                       | Rqr3                                                                                                                                                                       |          |
| wi3                        | '00'H                                                                                                                                                                      |          |
| rqr4                       | Rqr3                                                                                                                                                                       |          |
| wi4                        | '00'H                                                                                                                                                                      |          |
| iarroct                    | '2B2B2B'O                                                                                                                                                                  |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                            |          |

| PDU Constraint Declaration |                                                                                               |          |
|----------------------------|-----------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | ImsiDetach_01                                                                                 |          |
| <b>PDU Type:</b>           | IMSID_IN_PDU                                                                                  |          |
| <b>Derivation Path:</b>    |                                                                                               |          |
| <b>Comments:</b>           | IMSI DETACH INDICATION message matching any MS classmark1 value and any mobile identity value |          |
| Field Name                 | Field Value                                                                                   | Comments |
| ski                        | '0000'B                                                                                       |          |
| mmpd                       | '0101'B                                                                                       |          |
| mt                         | '0?000001'B                                                                                   |          |
| msclm                      | ?                                                                                             |          |
| mi                         | ?                                                                                             |          |
| <b>Detailed Comments:</b>  |                                                                                               |          |

| PDU Constraint Declaration |                                                                                 |          |
|----------------------------|---------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | ImsiDetach_30(par: MI)                                                          |          |
| <b>PDU Type:</b>           | IMSID_IN_PDU                                                                    |          |
| <b>Derivation Path:</b>    |                                                                                 |          |
| <b>Comments:</b>           | IMSI DETACH INDICATION message matching any MS classmark1 value and given IMSI. |          |
| Field Name                 | Field Value                                                                     | Comments |
| ski                        | '0000'B                                                                         |          |
| 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>Comments:</b>           | A LOCATION UPDATING ACCEPT message without mobile identity and LAI of PLMN2.<br>LAC set in TCV_lac. |          |
| Field Name                 | Field Value                                                                                         | Comments |
| ski                        | '0000'B                                                                                             |          |
| mmpd                       | '0101'B                                                                                             |          |
| mt                         | '00000010'B                                                                                         |          |
| lai                        | LocAreald(mcc, mnc, lac)                                                                            |          |
| mi                         | OMIT                                                                                                |          |
| fop                        | OMIT                                                                                                |          |
| <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>Comments:</b>           | To assign a new TMSI with or without mobile identity. |          |
| Field Name                 | Field Value                                           | Comments |
| ski                        | '0000'B                                               |          |
| mmpd                       | '0101'B                                               |          |
| mt                         | '00000010'B                                           |          |
| lai                        | LocAreald(mcc, mnc, lac)                              |          |
| mi                         | newmi                                                 |          |
| fop                        | OMIT                                                  |          |
| <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>Comments:</b>           | To assign a new TMSI.                     |          |
| Field Name                 | Field Value                               | Comments |
| ski                        | '0000'B                                   |          |
| mmpd                       | '0101'B                                   |          |
| mt                         | '00000010'B                               |          |
| lai                        | LocAreald(mcc, mnc, lac)                  |          |
| mi                         | OMIT                                      |          |
| fop                        | '10100001'B                               |          |
| <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>Comments:</b>           | Invalid LOCATION UPDATING ACCEPT message containing duplicated mobile identifier. |          |
| Field Name                 | Field Value                                                                       | Comments |
| ski                        | '0000'B                                                                           |          |
| 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>Comments:</b>           | A LOCATION UPDATING REQUEST message containing location updating type. |          |
| Field Name                 | Field Value                                                            | Comments |
| ski                        | '0000'B                                                                |          |
| mmpd                       | '0101'B                                                                |          |
| mt                         | '0?001000'B                                                            |          |
| cphksn                     | ?                                                                      |          |
| lutype                     | LocUpType(locup)                                                       |          |
| 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>Comments:</b>           | LOCATION UPDATING REQUEST message containing TMSI. |          |
| Field Name                 | Field Value                                        | Comments |
| ski                        | '0000'B                                            |          |
| 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>Comments:</b>           | to match any LOCATION UPDATING REQUEST message. |          |
| Field Name                 | Field Value                                     | Comments |
| ski                        | '0000'B                                         |          |
| 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>Comments:</b>           | A parametrized LOCATION UPDATING REQUEST message                                |          |
| Field Name                 | Field Value                                                                     | 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>Comments:</b>           | A LOCATION UPDATING REJECT message. |          |
| Field Name                 | Field Value                         | 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>Comments:</b>           | A MM STATUS message containing reject cause value #97-- message type non-existent or not implemented |          |
| Field Name                 | Field Value                                                                                          | Comments |
| ski                        | '0000'B                                                                                              |          |
| mmpd                       | '0101'B                                                                                              |          |
| mt                         | '0?110001'B                                                                                          |          |
| rejcau                     | '61'O                                                                                                |          |
| <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>Comments:</b>           | cause value = #96-- invalid mandatory information |          |
| Field Name                 | Field Value                                       | Comments |
| rejcau                     | '60'O                                             |          |
| <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>Comments:</b>           | cause value = #98 -- message type not compatible with the protocol state |          |
| Field Name                 | Field Value                                                              | Comments |
| rejcau                     | '62'O                                                                    |          |
| <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>Comments:</b>           | n -> ms                         |          |
| Field Name                 | Field Value                     | Comments |
| ti                         | Ti                              |          |
| ccpd                       | '0011'B                         |          |
| mt                         | '00011111'B                     |          |
| bcap                       | bc                              |          |
| llcmp                      | OMIT                            |          |
| hlcmp                      | OMIT                            |          |
| rscd                       | ?                               |          |
| <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>Comments:</b>           | n -> ms                         |          |
| Field Name                 | Field Value                     | Comments |
| ti                         | Ti                              |          |
| ccpd                       | '0011'B                         |          |
| mt                         | '00011111'B                     |          |
| bcap                       | bc                              |          |
| llcmp                      | OMIT                            |          |
| hlcmp                      | OMIT                            |          |
| rscd                       | OMIT                            |          |
| <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>Comments:</b>           |                                |          |
| Field Name                 | Field Value                    | Comments |
| ti                         | Ti                             |          |
| ccpd                       | '0011'B                        |          |
| mt                         | '0?010111'B                    |          |
| bcap                       | bc                             |          |
| llcmp                      | *                              |          |
| hlcmp                      | *                              |          |
| rscd                       | *                              |          |
| <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>Comments:</b>           |                                |          |
| Field Name                 | Field Value                    | Comments |
| ti                         | Ti                             |          |
| ccpd                       | '0011'B                        |          |
| mt                         | '00010111'B                    |          |
| bcap                       | bc                             |          |
| llcmp                      | OMIT                           |          |
| hlcmp                      | OMIT                           |          |
| rscd                       | OMIT                           |          |
| <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>Comments:</b>           |                               |          |
| Field Name                 | Field Value                   | Comments |
| ti                         | Ti                            |          |
| ccpd                       | '0011'B                       |          |
| mt                         | '0?010011'B                   |          |
| bcap                       | bc                            |          |
| cau                        | ?                             |          |
| llcmp                      | *                             |          |
| hlcmp                      | *                             |          |
| <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>Comments:</b>           | cause = bearer capability not presently available |          |
| Field Name                 | Field Value                                       | Comments |
| ti                         | Ti                                                |          |
| ccpd                       | '0011'B                                           |          |
| mt                         | '00010011'B                                       |          |
| bcap                       | bc                                                |          |
| cau                        | Cause_16                                          |          |
| llcmp                      | OMIT                                              |          |
| hlcmp                      | OMIT                                              |          |
| <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>Comments:</b>           | A measurement report without measurement results |          |
| Field Name                 | Field Value                                      | Comments |
| ski                        | '0000'B                                          |          |
| 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>Comments:</b>           | A measurement report match any received MSR_RPT_PDU. |          |
| Field Name                 | Field Value                                          | Comments |
| ski                        | '0000'B                                              |          |
| 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>Comments:</b>           | A measurement report containing results for 6 strongest carriers. |          |
| Field Name                 | Field Value                                                       | Comments |
| ski                        | '0000'B                                                           |          |
| 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>Comments:</b>           | A measurement report containing results for 6 strongest carriers. |          |
| Field Name                 | Field Value                                                       | Comments |
| ski                        | '0000'B                                                           |          |
| 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>Comments:</b>           | A measurement report containing 4 strongest carriers. |          |
| Field Name                 | Field Value                                           | Comments |
| ski                        | '0000'B                                               |          |
| 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>Comments:</b>           | A measurement report containing 4 strongest carriers. |          |
| Field Name                 | Field Value                                           | Comments |
| ski                        | '0000'B                                               |          |
| 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>Comments:</b>           | A measurement report containing 6 strongest carriers and DTX was used. |          |
| Field Name                 | Field Value                                                            | Comments |
| ski                        | '0000'B                                                                |          |
| 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>Comments:</b>           | A measurement report containing 6 strongest carriers and DTX is not checked. |          |
| Field Name                 | Field Value                                                                  | Comments |
| ski                        | '0000'B                                                                      |          |
| 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>Comments:</b>           | A measurement report containing 2 strongest carriers and DTX is not used. |          |
| Field Name                 | Field Value                                                               | Comments |
| ski                        | '0000'B                                                                   |          |
| 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>Comments:</b>           | Containing any valid notification indicator. n -> ms. |          |
| Field Name                 | Field Value                                           | Comments |
| ti                         | Ti                                                    |          |
| ccpd                       | '0011'B                                               |          |
| mt                         | '00111110'B                                           |          |
| nti                        | '10000000'B                                           |          |
| <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>Comments:</b>           | To match any received PAGING RESPONSE message. |          |
| Field Name                 | Field Value                                    | Comments |
| ski                        | '0000'B                                        |          |
| rrpd                       | '0110'B                                        |          |
| mt                         | '00100111'B                                    |          |
| shoct                      | '0000'B                                        |          |
| cphksn                     | ?                                              |          |
| msclm                      | ?                                              |          |
| mi                         | ?                                              |          |
| <b>Detailed Comments:</b>  |                                                |          |

| PDU Constraint Declaration |                                                                                     |          |
|----------------------------|-------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | PagingRes_03                                                                        |          |
| <b>PDU Type:</b>           | PG_RES_PDU                                                                          |          |
| <b>Derivation Path:</b>    |                                                                                     |          |
| <b>Comments:</b>           | To match a received PAGING RESPONSE message with default TMSI, CKSN and classmark2. |          |
| Field Name                 | Field Value                                                                         | Comments |
| ski                        | '0000'B                                                                             |          |
| rrpd                       | '0110'B                                                                             |          |
| mt                         | '00100111'B                                                                         |          |
| shoct                      | '0000'B                                                                             |          |
| cphksn                     | CphKeySN_01                                                                         |          |
| msclm                      | ClassMark2                                                                          |          |
| mi                         | MiTmsi_01                                                                           |          |
| <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>Comments:</b>           | To match any received PAGING RESPONSE message, RR tests. |          |
| Field Name                 | Field Value                                              | Comments |
| mi                         | MiTmsi_01                                                |          |
| <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>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                                                                                                                                                 | 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>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                                                                                                             | Comments |
| l2_pl                      | '2D'O                                                                                                                   |          |
| ski                        | '0000'B                                                                                                                 |          |
| rrpd                       | '0110'B                                                                                                                 |          |
| mt                         | '00100010'B                                                                                                             |          |
| chn_m1_2                   | Chneed_01                                                                                                               |          |
| pm                         | Pm(C_normal_paging)                                                                                                     |          |
| mi1                        | Tmsi_01                                                                                                                 |          |
| mi2                        | Tmsi_r01                                                                                                                |          |
| mi3                        | OMIT                                                                                                                    |          |
| p2roct                     | '2B2B2B2B2B2B2B2B2B2B2B2B'O                                                                                             |          |
| <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>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                                                                                                            | Comments |
| l2_pl                      | '2D'O                                                                                                                  |          |
| ski                        | '0000'B                                                                                                                |          |
| rrpd                       | '0110'B                                                                                                                |          |
| mt                         | '00100010'B                                                                                                            |          |
| chn_m1_2                   | Chneed_01                                                                                                              |          |
| pm                         | Pm(C_extended_paging)                                                                                                  |          |
| mi1                        | Tmsi_r01                                                                                                               |          |
| mi2                        | Tmsi_r03                                                                                                               |          |
| mi3                        | OMIT                                                                                                                   |          |
| p2roct                     | '2B2B2B2B2B2B2B2B2B2B2B2B'O                                                                                            |          |
| <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>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                                                                                                                     | Comments |
| l2_pl                      | '2D'O                                                                                                                           |          |
| ski                        | '0000'B                                                                                                                         |          |
| rrpd                       | '0110'B                                                                                                                         |          |
| mt                         | '00100010'B                                                                                                                     |          |
| chn_m1_2                   | Chneed_01                                                                                                                       |          |
| pm                         | Pm(C_reorg_paging)                                                                                                              |          |
| mi1                        | Tmsi_01                                                                                                                         |          |
| mi2                        | Tmsi_r01                                                                                                                        |          |
| mi3                        | OMIT                                                                                                                            |          |
| p2roct                     | '2B2B2B2B2B2B2B2B2B2B'O                                                                                                         |          |
| <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>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                                                                                                                     | Comments |
| l2_pl                      | '2D'O                                                                                                                           |          |
| ski                        | '0000'B                                                                                                                         |          |
| rrpd                       | '0110'B                                                                                                                         |          |
| mt                         | '00100010'B                                                                                                                     |          |
| chn_m1_2                   | Chneed_01                                                                                                                       |          |
| pm                         | Pm(C_sab_paging)                                                                                                                |          |
| mi1                        | Tmsi_01                                                                                                                         |          |
| mi2                        | Tmsi_r01                                                                                                                        |          |
| mi3                        | OMIT                                                                                                                            |          |
| p2roct                     | '2B2B2B2B2B2B2B2B2B2B'O                                                                                                         |          |
| <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>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                                                                                                                                                      | Comments |
| l2_pl                      | '2D'O                                                                                                                                                            |          |
| ski                        | '0000'B                                                                                                                                                          |          |
| rrpd                       | '0110'B                                                                                                                                                          |          |
| mt                         | '00100010'B                                                                                                                                                      |          |
| chn_m1_2                   | Chneed_01                                                                                                                                                        |          |
| pm                         | Pm(C_normal_paging)                                                                                                                                              |          |
| mi1                        | Tmsi_01                                                                                                                                                          |          |
| mi2                        | Tmsi_r01                                                                                                                                                         |          |
| mi3                        | OMIT                                                                                                                                                             |          |
| p2roct                     | '2B2B2B2B2B2B2B2B2B2B'O                                                                                                                                          |          |
| <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>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                                                                                                                                                      | Comments |
| l2_pl                      | '2D'O                                                                                                                                                            |          |
| ski                        | '0000'B                                                                                                                                                          |          |
| rrpd                       | '0110'B                                                                                                                                                          |          |
| mt                         | '00100010'B                                                                                                                                                      |          |
| chn_m1_2                   | Chneed_01                                                                                                                                                        |          |
| pm                         | Pm(C_normal_paging)                                                                                                                                              |          |
| mi1                        | Tmsi_r01                                                                                                                                                         |          |
| mi2                        | Tmsi_01                                                                                                                                                          |          |
| mi3                        | OMIT                                                                                                                                                             |          |
| p2roct                     | '2B2B2B2B2B2B2B2B2B2B2B2B'O                                                                                                                                      |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                  |          |

| PDU Constraint Declaration |                                                                                                                                                                      |          |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | PgReqTp2_r03                                                                                                                                                         |          |
| <b>PDU Type:</b>           | PG2_RQ_PDU                                                                                                                                                           |          |
| <b>Derivation Path:</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. The 1st and 2nd one address an another MS. |          |
| Field Name                 | Field Value                                                                                                                                                          | Comments |
| l2_pl                      | '49'O                                                                                                                                                                |          |
| ski                        | '0000'B                                                                                                                                                              |          |
| rrpd                       | '0110'B                                                                                                                                                              |          |
| mt                         | '00100010'B                                                                                                                                                          |          |
| chn_m1_2                   | Chneed_01                                                                                                                                                            |          |
| pm                         | Pm(C_normal_paging)                                                                                                                                                  |          |
| mi1                        | Tmsi_r03                                                                                                                                                             |          |
| mi2                        | Tmsi_r01                                                                                                                                                             |          |
| mi3                        | MiTmsi_01iei                                                                                                                                                         |          |
| p2roct                     | '2B2B2B2B'O                                                                                                                                                          |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                      |          |

| PDU Constraint Declaration |                                                                                                                                                                            |          |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | PgReqTp2_r04                                                                                                                                                               |          |
| <b>PDU Type:</b>           | PG2_RQ_PDU                                                                                                                                                                 |          |
| <b>Derivation Path:</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                                                                                                                                                                | 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                                                                                                                                                                  |          |
| pm                         | Pm(C_normal_paging)                                                                                                                                                        |          |
| mi1                        | Tmsi_r03                                                                                                                                                                   |          |
| mi2                        | Tmsi_r01                                                                                                                                                                   |          |
| mi3                        | Milmsi_01iei                                                                                                                                                               |          |
| p2roct                     | OC_SubOctet('2B2B2B2B2B2B2B2B2B2B2B2B2B'O, 11 - OC_LengthOf(Milmsi_01iei))                                                                                                 |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                            |          |

| PDU Constraint Declaration |                                                                                                                                                                                             |          |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | PgReqTp2_r05                                                                                                                                                                                |          |
| <b>PDU Type:</b>           | PG2_RQ_PDU                                                                                                                                                                                  |          |
| <b>Derivation Path:</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                                                                                                                                                                                 | Comments |
| l2_pl                      | '49'O                                                                                                                                                                                       |          |
| ski                        | '0000'B                                                                                                                                                                                     |          |
| rrpd                       | '0110'B                                                                                                                                                                                     |          |
| mt                         | '00100010'B                                                                                                                                                                                 |          |
| chn_m1_2                   | Chneed_01                                                                                                                                                                                   |          |
| pm                         | Pm(C_normal_paging)                                                                                                                                                                         |          |
| mi1                        | Tmsi_r03                                                                                                                                                                                    |          |
| mi2                        | Tmsi_r01                                                                                                                                                                                    |          |
| mi3                        | MiTmsi_r02iei                                                                                                                                                                               |          |
| p2roct                     | '2B2B2B2B'O                                                                                                                                                                                 |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                                             |          |

| PDU Constraint Declaration |                                                                                                                                                                            |          |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | PgReqTp2_r06                                                                                                                                                               |          |
| <b>PDU Type:</b>           | PG2_RQ_PDU                                                                                                                                                                 |          |
| <b>Derivation Path:</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                                                                                                                                                                | 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                                                                                                                                                                  |          |
| pm                         | Pm(C_extended_paging)                                                                                                                                                      |          |
| mi1                        | Tmsi_r03                                                                                                                                                                   |          |
| mi2                        | Tmsi_r01                                                                                                                                                                   |          |
| mi3                        | Milmsi_01iei                                                                                                                                                               |          |
| p2roct                     | OC_SubOctet('2B2B2B2B2B2B2B2B2B2B'O, 11 - OC_LengthOf(Milmsi_01iei))                                                                                                       |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                                            |          |

| PDU Constraint Declaration |                                                                                                                        |          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | PgReqTp3_01                                                                                                            |          |
| <b>PDU Type:</b>           | PG3_RQ_PDU                                                                                                             |          |
| <b>Derivation Path:</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                                                                                                            | Comments |
| l2_pl                      | '4D'O                                                                                                                  |          |
| 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>Comments:</b>           | An PAGING REQUEST TYPE3 message containing paging mode = "same as before". |          |
| Field Name                 | Field Value                                                                | Comments |
| l2_pl                      | '4D'O                                                                      |          |
| ski                        | '0000'B                                                                    |          |
| rrpd                       | '0110'B                                                                    |          |
| mt                         | '00100100'B                                                                |          |
| chn_m1_2                   | Chneed_01                                                                  |          |
| pm                         | Pm(C_sab_paging)                                                           |          |
| mi1                        | Tmsi_r05                                                                   |          |
| mi2                        | Tmsi_r01                                                                   |          |
| mi3                        | Tmsi_r03                                                                   |          |
| mi4                        | Tmsi_r04                                                                   |          |
| p3roct                     | '2B2B2B'O                                                                  |          |
| <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>Comments:</b>           | An PAGING REQUEST TYPE3 message containing paging mode = "normal paging". |          |
| Field Name                 | Field Value                                                               | Comments |
| l2_pl                      | '4D'O                                                                     |          |
| ski                        | '0000'B                                                                   |          |
| rrpd                       | '0110'B                                                                   |          |
| mt                         | '00100100'B                                                               |          |
| chn_m1_2                   | Chneed_01                                                                 |          |
| pm                         | Pm(C_normal_paging)                                                       |          |
| mi1                        | Tmsi_r05                                                                  |          |
| mi2                        | Tmsi_r01                                                                  |          |
| mi3                        | Tmsi_r03                                                                  |          |
| mi4                        | Tmsi_r04                                                                  |          |
| p3roct                     | '2B2B2B'O                                                                 |          |
| <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>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                                                                                                                                                               | Comments |
| l2_pl                      | '4D'O                                                                                                                                                                     |          |
| 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>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                                                                                                                                                               | Comments |
| mi1                        | Tmsi_r01                                                                                                                                                                  |          |
| 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>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                                                                                                                                                               | Comments |
| mi1                        | Tmsi_r03                                                                                                                                                                  |          |
| 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>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                                                                                                                                                               | Comments |
| mi1                        | Tmsi_r04                                                                                                                                                                  |          |
| mi4                        | Tmsi_01                                                                                                                                                                   |          |
| <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>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                                                                                                                                                               | Comments |
| l2_pl                      | '4D'O                                                                                                                                                                     |          |
| ski                        | '0000'B                                                                                                                                                                   |          |
| rrpd                       | '0110'B                                                                                                                                                                   |          |
| mt                         | '00100100'B                                                                                                                                                               |          |
| chn_m1_2                   | Chneed_01                                                                                                                                                                 |          |
| pm                         | Pm(C_extended_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> Phyinfor_01(ta: TA) |             |          |
| <b>PDU Type:</b> PHYINFO_PDU                |             |          |
| <b>Derivation Path:</b>                     |             |          |
| <b>Comments:</b>                            |             |          |
| Field Name                                  | Field Value | Comments |
| ski                                         | '0000'B     |          |
| rrpd                                        | '0110'B     |          |
| mt                                          | '00101101'B |          |
| 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>Comments:</b>                            |             |          |
| Field Name                                  | Field Value | Comments |
| ti                                          | Ti          |          |
| ccpd                                        | '0011'B     |          |
| mt                                          | '00000011'B |          |
| pi                                          | ProgInd_02  |          |
| uu                                          | OMIT        |          |
| <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>Comments:</b>                            |             |          |
| Field Name                                  | Field Value | Comments |
| ti                                          | Ti          |          |
| ccpd                                        | '0011'B     |          |
| mt                                          | '00000011'B |          |
| pi                                          | ProgInd_03  |          |
| uu                                          | OMIT        |          |
| <b>Detailed Comments:</b>                   |             |          |

| PDU Constraint Declaration                              |                    |          |
|---------------------------------------------------------|--------------------|----------|
| <b>Constraint Name:</b> RegisterPdu_01                  |                    |          |
| <b>PDU Type:</b> REGISTER_PDU                           |                    |          |
| <b>Derivation Path:</b>                                 |                    |          |
| <b>Comments:</b> To match any received REGISTER message |                    |          |
| Field Name                                              | Field Value        | Comments |
| ti                                                      | ?                  |          |
| sspd                                                    | ('1011'B, '0011'B) |          |
| mt                                                      | '0?111011'B        |          |
| fie                                                     | ?                  |          |
| ssvi                                                    | *                  |          |
| <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>Comments:</b>           | To match a received REGISTER message invoking registration of CFRNy for Speech |          |
| Field Name                 | Field Value                                                                    | Comments |
| ti                         | ?                                                                              |          |
| sspd                       | '1011'B                                                                        |          |
| mt                         | '0?111011'B                                                                    |          |
| fie                        | fie                                                                            |          |
| ssvi                       | *                                                                              |          |
| <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>Comments:</b>           | To send a REGISTER message containing Invoke for UnstructuredSS-Notify |          |
| Field Name                 | Field Value                                                            | Comments |
| ti                         | Ti                                                                     |          |
| sspd                       | '1011'B                                                                |          |
| mt                         | '00111011'B                                                            |          |
| fie                        | fie                                                                    |          |
| ssvi                       | OMIT                                                                   |          |
| <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>Comments:</b>           | A CC RELEASE message containing cause #96, used to match received CC RELEASE message. |          |
| Field Name                 | Field Value                                                                           | Comments |
| ti                         | ti                                                                                    |          |
| ccpd                       | '0011'B                                                                               |          |
| mt                         | '0?101101'B                                                                           |          |
| cau                        | Cause_04iei                                                                           |          |
| cau2                       | *                                                                                     |          |
| fie                        | *                                                                                     |          |
| uu                         | *                                                                                     |          |
| ssvi                       | *                                                                                     |          |
| <b>Detailed Comments:</b>  |                                                                                       |          |

| PDU Constraint Declaration |                                                                |          |
|----------------------------|----------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Release_02                                                     |          |
| <b>PDU Type:</b>           | REL_PDU                                                        |          |
| <b>Derivation Path:</b>    |                                                                |          |
| <b>Comments:</b>           | A CC RELEASE message to match any received CC RELEASE message. |          |
| Field Name                 | Field Value                                                    | Comments |
| ti                         | ?                                                              |          |
| ccpd                       | '0011'B                                                        |          |
| mt                         | '0?101101'B                                                    |          |
| cau                        | *                                                              |          |
| cau2                       | *                                                              |          |
| fie                        | *                                                              |          |
| uu                         | *                                                              |          |
| ssvi                       | *                                                              |          |
| <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>Comments:</b>           | A CC RELEASE message containing cause #31 to be sent to the MS. |          |
| Field Name                 | Field Value                                                     | Comments |
| ti                         | Ti                                                              |          |
| ccpd                       | '0011'B                                                         |          |
| mt                         | '00101101'B                                                     |          |
| cau                        | Cause_11                                                        |          |
| cau2                       | OMIT                                                            |          |
| fie                        | OMIT                                                            |          |
| uu                         | OMIT                                                            |          |
| ssvi                       | OMIT                                                            |          |
| <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>Comments:</b>           | A CC RELEASE message.        |          |
| Field Name                 | Field Value                  | Comments |
| ti                         | Ti                           |          |
| ccpd                       | '0011'B                      |          |
| mt                         | '0?101101'B                  |          |
| cau                        | Cau                          |          |
| cau2                       | Cause_14 IF_PRESENT          |          |
| fie                        | *                            |          |
| uu                         | *                            |          |
| ssvi                       | *                            |          |
| <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>Comments:</b>           | A CC RELEASE message containing cause #16 and second cause #102 to be sent to the MS. |          |
| Field Name                 | Field Value                                                                           | Comments |
| ti                         | Ti                                                                                    |          |
| ccpd                       | '0011'B                                                                               |          |
| mt                         | '00101101'B                                                                           |          |
| cau                        | Cause_01iei                                                                           |          |
| cau2                       | Cause_23                                                                              |          |
| fie                        | OMIT                                                                                  |          |
| uu                         | OMIT                                                                                  |          |
| ssvi                       | OMIT                                                                                  |          |
| <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>Comments:</b>           | A CC RELEASE message with mandatory IE's only used in structured procedures test . |          |
| Field Name                 | Field Value                                                                        | Comments |
| ti                         | Ti                                                                                 |          |
| ccpd                       | '0011'B                                                                            |          |
| mt                         | '00101101'B                                                                        |          |
| cau                        | OMIT                                                                               |          |
| cau2                       | OMIT                                                                               |          |
| fie                        | OMIT                                                                               |          |
| uu                         | OMIT                                                                               |          |
| ssvi                       | OMIT                                                                               |          |
| <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>Comments:</b>           | A CC RELEASE message used to match any received CC RELEASE message with a controllable TI. |          |
| Field Name                 | Field Value                                                                                | Comments |
| ti                         | Ti                                                                                         |          |
| ccpd                       | '0011'B                                                                                    |          |
| mt                         | '0?101101'B                                                                                |          |
| cau                        | *                                                                                          |          |
| cau2                       | *                                                                                          |          |
| fie                        | *                                                                                          |          |
| uu                         | *                                                                                          |          |
| ssvi                       | *                                                                                          |          |
| <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>Comments:</b>           | A RELEASE COMPLETE message containing cause value = #81. ms -> n |          |
| Field Name                 | Field Value                                                      | Comments |
| ti                         | Ti                                                               |          |
| cc_sspd                    | '0011'B                                                          |          |
| mt                         | '0?101010'B                                                      |          |
| cau                        | cau                                                              |          |
| fie                        | *                                                                |          |
| uu                         | *                                                                |          |
| ssvi                       | *                                                                |          |
| <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>Comments:</b>           | A RELEASE COMPLETE message containing cause value #16. n -> ms |          |
| Field Name                 | Field Value                                                    | Comments |
| ti                         | ti                                                             |          |
| cc_sspd                    | '0011'B                                                        |          |
| mt                         | '00101010'B                                                    |          |
| cau                        | Cause_26                                                       |          |
| fie                        | OMIT                                                           |          |
| uu                         | OMIT                                                           |          |
| ssvi                       | OMIT                                                           |          |
| <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>Comments:</b>           | To match any received RELEASE message. |          |
| Field Name                 | Field Value                            | Comments |
| ti                         | Ti                                     |          |
| cc_sspd                    | '0011'B                                |          |
| mt                         | '0?101010'B                            |          |
| cau                        | *                                      |          |
| fie                        | *                                      |          |
| uu                         | *                                      |          |
| ssvi                       | *                                      |          |
| <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>Comments:</b>           | A RELEASE COMPLETE message containing cause value #1. n -> ms |          |
| Field Name                 | Field Value                                                   | Comments |
| ti                         | Ti                                                            |          |
| cc_sspd                    | '0011'B                                                       |          |
| mt                         | '00101010'B                                                   |          |
| cau                        | Cause_10                                                      |          |
| fie                        | OMIT                                                          |          |
| uu                         | OMIT                                                          |          |
| ssvi                       | OMIT                                                          |          |
| <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>Comments:</b>           | A RELEASE COMPLETE message containing cause value = #88. ms -> n |          |
| Field Name                 | Field Value                                                      | Comments |
| ti                         | Ti                                                               |          |
| cc_sspd                    | '0011'B                                                          |          |
| mt                         | '0?101010'B                                                      |          |
| cau                        | Cause_27                                                         |          |
| fie                        | *                                                                |          |
| uu                         | *                                                                |          |
| ssvi                       | *                                                                |          |
| <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>Comments:</b>           | A RELEASE COMPLETE message containing mandatory IEs only. n -> ms |          |
| Field Name                 | Field Value                                                       | Comments |
| ti                         | Ti                                                                |          |
| cc_sspd                    | '0011'B                                                           |          |
| mt                         | '00101010'B                                                       |          |
| cau                        | OMIT                                                              |          |
| fie                        | OMIT                                                              |          |
| uu                         | OMIT                                                              |          |
| ssvi                       | OMIT                                                              |          |
| <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>Comments:</b>           | A RELEASE COMPLETE message containing facility IE. n -> ms |          |
| Field Name                 | Field Value                                                | Comments |
| ti                         | Ti                                                         |          |
| cc_sspd                    | '1011'B                                                    |          |
| mt                         | '00101010'B                                                |          |
| cau                        | OMIT                                                       |          |
| fie                        | fie                                                        |          |
| uu                         | OMIT                                                       |          |
| ssvi                       | OMIT                                                       |          |
| <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>Comments:</b>           | A RELEASE COMPLETE message containing cause value = #17. ms -> n |          |
| Field Name                 | Field Value                                                      | Comments |
| ti                         | Ti                                                               |          |
| cc_sspd                    | '0011'B                                                          |          |
| mt                         | '0?101010'B                                                      |          |
| cau                        | Cause_17                                                         |          |
| fie                        | *                                                                |          |
| uu                         | *                                                                |          |
| ssvi                       | *                                                                |          |
| <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>Comments:</b>           | To match a received RELEASE message which may or may not contain facility IE |          |
| Field Name                 | Field Value                                                                  | Comments |
| ti                         | Ti                                                                           |          |
| cc_sspd                    | '0011'B                                                                      |          |
| mt                         | '0?101010'B                                                                  |          |
| cau                        | *                                                                            |          |
| fie                        | facilityIErcviei( FwdChAdvRslt_01)<br>IF_PRESENT                             |          |
| uu                         | *                                                                            |          |
| ssvi                       | *                                                                            |          |
| <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>Comments:</b>           | To send a RELEASE COMPLETE message containing cause 'facility rejected' and without FIE |          |
| Field Name                 | Field Value                                                                             | Comments |
| ti                         | Ti                                                                                      |          |
| cc_sspd                    | '1011'B                                                                                 |          |
| mt                         | '00101010'B                                                                             |          |
| cau                        | Cause_28                                                                                |          |
| fie                        | OMIT                                                                                    |          |
| uu                         | OMIT                                                                                    |          |
| ssvi                       | OMIT                                                                                    |          |
| <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>Comments:</b>           | To send a RELEASE COMPLETE message without cause and without FIE |          |
| Field Name                 | Field Value                                                      | Comments |
| ti                         | Ti                                                               |          |
| cc_sspd                    | '1011'B                                                          |          |
| mt                         | '00101010'B                                                      |          |
| cau                        | OMIT                                                             |          |
| fie                        | OMIT                                                             |          |
| uu                         | OMIT                                                             |          |
| ssvi                       | OMIT                                                             |          |
| <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>Comments:</b>           | To receive a RELEASE COMPLETE message containing Return Error for UnstructuredSS-Notify with the error code USSD Busy |          |
| Field Name                 | Field Value                                                                                                           | Comments |
| ti                         | Ti                                                                                                                    |          |
| cc_sspd                    | '1011'B                                                                                                               |          |
| mt                         | '0?101010'B                                                                                                           |          |
| cau                        | *                                                                                                                     |          |
| fie                        | facilityIErcviei( NotificationSS_09(Invkid))                                                                          |          |
| uu                         | OMIT                                                                                                                  |          |
| ssvi                       | OMIT                                                                                                                  |          |
| <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>Comments:</b>           | To receive a RELEASE COMPLETE message containing Return Error for UnstructuredSS-Request with the error code USSD Busy |          |
| Field Name                 | Field Value                                                                                                            | Comments |
| ti                         | Ti                                                                                                                     |          |
| cc_sspd                    | '1011'B                                                                                                                |          |
| mt                         | '0?101010'B                                                                                                            |          |
| cau                        | *                                                                                                                      |          |
| fie                        | facilityIErcviei( USSDReq_05(Invkid))                                                                                  |          |
| uu                         | OMIT                                                                                                                   |          |
| ssvi                       | OMIT                                                                                                                   |          |
| <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>Comments:</b>           | A RELEASE COMPLETE message containing cause value #81 and TI = '1110'B. ms -> n. |          |
| Field Name                 | Field Value                                                                      | Comments |
| ti                         | ti                                                                               |          |
| cc_sspd                    | '0011'B                                                                          |          |
| mt                         | '0?101010'B                                                                      |          |
| cau                        | Cause_22                                                                         |          |
| fie                        | OMIT                                                                             |          |
| uu                         | OMIT                                                                             |          |
| ssvi                       | OMIT                                                                             |          |
| <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>Comments:</b>           | An invalid RELEASE COMPLETE message containing unknown optional IEI |          |
| Field Name                 | Field Value                                                         | Comments |
| ti                         | ti                                                                  |          |
| cc_sspd                    | '0011'B                                                             |          |
| mt                         | '00101010'B                                                         |          |
| cau                        | Cause_08                                                            |          |
| fie                        | OMIT                                                                |          |
| uu                         | OMIT                                                                |          |
| ssvi                       | OMIT                                                                |          |
| <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>Comments:</b>           | An invalid RELEASE message containing unknown optional IE. |          |
| Field Name                 | Field Value                                                | Comments |
| ti                         | Ti                                                         |          |
| ccpd                       | '0011'B                                                    |          |
| mt                         | '00101101'B                                                |          |
| cau                        | Cause_09                                                   |          |
| cau2                       | OMIT                                                       |          |
| fie                        | OMIT                                                       |          |
| uu                         | OMIT                                                       |          |
| ssvi                       | OMIT                                                       |          |
| <b>Detailed Comments:</b>  |                                                            |          |

| PDU Constraint Declaration |                                              |          |
|----------------------------|----------------------------------------------|----------|
| <b>Constraint Name:</b>    | RRStatus_01                                  |          |
| <b>PDU Type:</b>           | RRST_PDU                                     |          |
| <b>Derivation Path:</b>    |                                              |          |
| <b>Comments:</b>           | A RR STATUS message containing any RR cause. |          |
| Field Name                 | Field Value                                  | 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>Comments:</b>           | RR STATUS message containing cause value #96--invalid mandatory information |          |
| Field Name                 | Field Value                                                                 | Comments |
| rrcau                      | '01100000'B                                                                 |          |
| <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>Comments:</b>           | A RR STATUS message containing cause value #97--message type non-existent or not implemented |          |
| Field Name                 | Field Value                                                                                  | Comments |
| rrcau                      | '01100001'B                                                                                  |          |
| <b>Detailed Comments:</b>  |                                                                                              |          |

| PDU Constraint Declaration |                                                               |          |
|----------------------------|---------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Setup_01(ti: TI)                                              |          |
| <b>PDU Type:</b>           | SETUP_MT_PDU                                                  |          |
| <b>Derivation Path:</b>    |                                                               |          |
| <b>Comments:</b>           | A SETUP message containing speech bearer capability. n -> ms. |          |
| Field Name                 | Field Value                                                   | Comments |
| ti                         | ti                                                            |          |
| ccpd                       | '0011'B                                                       |          |
| mt                         | '00000101'B                                                   |          |
| bcri                       | OMIT                                                          |          |
| bcap1                      | Bcap_Speech_MT                                                |          |
| bcap2                      | OMIT                                                          |          |
| fie                        | OMIT                                                          |          |
| pi                         | OMIT                                                          |          |
| sig                        | OMIT                                                          |          |
| cgpn                       | OMIT                                                          |          |
| cgps                       | OMIT                                                          |          |
| cdpn                       | OMIT                                                          |          |
| cdps                       | OMIT                                                          |          |
| llcri                      | OMIT                                                          |          |
| llcmp1                     | OMIT                                                          |          |
| llcmp2                     | OMIT                                                          |          |
| hlcri                      | OMIT                                                          |          |
| hlcmp1                     | OMIT                                                          |          |
| hlcmp2                     | OMIT                                                          |          |
| uu                         | OMIT                                                          |          |
| <b>Detailed Comments:</b>  |                                                               |          |

| PDU Constraint Declaration |                                                              |          |
|----------------------------|--------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Setup_02(bcap: BCAP)                                         |          |
| <b>PDU Type:</b>           | SETUP_MO_PDU                                                 |          |
| <b>Derivation Path:</b>    |                                                              |          |
| <b>Comments:</b>           | A SETUP message containing speech bearer capability. ms -> n |          |
| Field Name                 | Field Value                                                  | Comments |
| ti                         | ?                                                            |          |
| ccpd                       | '0011'B                                                      |          |
| mt                         | '0?000101'B                                                  |          |
| bcri                       | OMIT                                                         |          |
| bcap1                      | bcap                                                         |          |
| bcap2                      | OMIT                                                         |          |
| fie                        | *                                                            |          |
| cgps                       | *                                                            |          |
| cdpn                       | ?                                                            |          |
| cdps                       | *                                                            |          |
| llcri                      | *                                                            |          |
| llcmp1                     | *                                                            |          |
| llcmp2                     | *                                                            |          |
| hlcri                      | *                                                            |          |
| hlcmp1                     | *                                                            |          |
| hlcmp2                     | *                                                            |          |
| uu                         | *                                                            |          |
| ssvi                       | *                                                            |          |
| clirsup                    | *                                                            |          |
| clirinv                    | *                                                            |          |
| cccap                      | *                                                            |          |
| <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>Comments:</b>           | A SETUP message with mandatory IE's only. This is default for BIBO testing. |          |
| Field Name                 | Field Value                                                                 | Comments |
| ti                         | ti                                                                          |          |
| ccpd                       | '0011'B                                                                     |          |
| mt                         | '00000101'B                                                                 |          |
| bcric                      | OMIT                                                                        |          |
| bcap1                      | OMIT                                                                        |          |
| bcap2                      | OMIT                                                                        |          |
| fi                         | OMIT                                                                        |          |
| pi                         | OMIT                                                                        |          |
| sig                        | OMIT                                                                        |          |
| cgpn                       | OMIT                                                                        |          |
| cgps                       | OMIT                                                                        |          |
| cdpn                       | OMIT                                                                        |          |
| cdps                       | OMIT                                                                        |          |
| llcri                      | OMIT                                                                        |          |
| llcmp1                     | OMIT                                                                        |          |
| llcmp2                     | OMIT                                                                        |          |
| hlcri                      | OMIT                                                                        |          |
| hlcmp1                     | OMIT                                                                        |          |
| hlcmp2                     | OMIT                                                                        |          |
| uu                         | OMIT                                                                        |          |
| <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>Comments:</b>           | A Emergency call SETUP message with/without speech bearer capability. ms -> n. |          |
| Field Name                 | Field Value                                                                    | Comments |
| ti                         | ?                                                                              |          |
| ccpd                       | '0011'B                                                                        |          |
| mt                         | '0?001110'B                                                                    |          |
| bcap                       | bcap IF_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>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                                                                                                                                           | Comments |
| ti                         | ?                                                                                                                                                     |          |
| ccpd                       | '0011'B                                                                                                                                               |          |
| mt                         | '00000101'B                                                                                                                                           |          |
| bcri                       | OMIT                                                                                                                                                  |          |
| bcap1                      | bcap                                                                                                                                                  |          |
| bcap2                      | OMIT                                                                                                                                                  |          |
| fie                        | *                                                                                                                                                     |          |
| cgps                       | *                                                                                                                                                     |          |
| cdpn                       | ?                                                                                                                                                     |          |
| cdps                       | *                                                                                                                                                     |          |
| llcri                      | OMIT                                                                                                                                                  |          |
| llcmp1                     | llc1                                                                                                                                                  |          |
| llcmp2                     | OMIT                                                                                                                                                  |          |
| hlcri                      | OMIT                                                                                                                                                  |          |
| hlcmp1                     | hlc1                                                                                                                                                  |          |
| hlcmp2                     | OMIT                                                                                                                                                  |          |
| uu                         | *                                                                                                                                                     |          |
| ssvi                       | *                                                                                                                                                     |          |
| clirsup                    | *                                                                                                                                                     |          |
| clirinv                    | *                                                                                                                                                     |          |
| cccacp                     | CallCntrlCap IF_PRESENT                                                                                                                               |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                       |          |

| PDU Constraint Declaration |                                                                                                                                                |          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Setup_10_3100(bcap: BCAP; llc1: LLCMP; hlc1: HLCMP)                                                                                            |          |
| <b>PDU Type:</b>           | SETUP_MO_PDU                                                                                                                                   |          |
| <b>Derivation Path:</b>    |                                                                                                                                                |          |
| <b>Comments:</b>           | 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                                                                                                                                    | Comments |
| ti                         | ?                                                                                                                                              |          |
| ccpd                       | '0011'B                                                                                                                                        |          |
| mt                         | '00000101'B                                                                                                                                    |          |
| bcri                       | OMIT                                                                                                                                           |          |
| bcap1                      | bcap                                                                                                                                           |          |
| bcap2                      | OMIT                                                                                                                                           |          |
| fie                        | *                                                                                                                                              |          |
| cgps                       | *                                                                                                                                              |          |
| cdpn                       | ?                                                                                                                                              |          |
| cdps                       | *                                                                                                                                              |          |
| llcri                      | OMIT                                                                                                                                           |          |
| llcmp1                     | llc1 IF_PRESENT                                                                                                                                |          |
| llcmp2                     | OMIT                                                                                                                                           |          |
| hlcri                      | OMIT                                                                                                                                           |          |
| hlcmp1                     | hlc1                                                                                                                                           |          |
| hlcmp2                     | OMIT                                                                                                                                           |          |
| uu                         | *                                                                                                                                              |          |
| ssvi                       | *                                                                                                                                              |          |
| clirsup                    | *                                                                                                                                              |          |
| clirinv                    | *                                                                                                                                              |          |
| cccacp                     | CallCntrlCap IF_PRESENT                                                                                                                        |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                |          |

| PDU Constraint Declaration |                                                                                                                                                      |          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Setup_11_3100(bcric1: RPI; bcap, bcap2nd: BCAP; llc1, llc2: LLCMP; llcri1, hlcric1: RPI; hlc1, hlc2: HLCMP)                                          |          |
| <b>PDU Type:</b>           | SETUP_MO_PDU                                                                                                                                         |          |
| <b>Derivation Path:</b>    |                                                                                                                                                      |          |
| <b>Comments:</b>           | 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                                                                                                                                          | Comments |
| ti                         | ?                                                                                                                                                    |          |
| ccpd                       | '0011'B                                                                                                                                              |          |
| mt                         | '00000101'B                                                                                                                                          |          |
| bcri                       | bcri1                                                                                                                                                |          |
| bcap1                      | bcap                                                                                                                                                 |          |
| bcap2                      | bcap2nd                                                                                                                                              |          |
| fie                        | *                                                                                                                                                    |          |
| cgps                       | *                                                                                                                                                    |          |
| cdpn                       | ?                                                                                                                                                    |          |
| cdps                       | *                                                                                                                                                    |          |
| llcri                      | llcri1 IF_PRESENT                                                                                                                                    |          |
| llcmp1                     | llc1 IF_PRESENT                                                                                                                                      |          |
| llcmp2                     | llc2 IF_PRESENT                                                                                                                                      |          |
| hlcric1                    | hlcric1                                                                                                                                              |          |
| hlcmp1                     | hlc1                                                                                                                                                 |          |
| hlcmp2                     | hlc2                                                                                                                                                 |          |
| uu                         | *                                                                                                                                                    |          |
| ssvi                       | *                                                                                                                                                    |          |
| clirsup                    | *                                                                                                                                                    |          |
| clirinv                    | *                                                                                                                                                    |          |
| cccacp                     | CallCntrlCap IF_PRESENT                                                                                                                              |          |
| <b>Detailed Comments:</b>  |                                                                                                                                                      |          |

| PDU Constraint Declaration |                                                                               |          |
|----------------------------|-------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Setup_20(par: BCAP; ti: TI)                                                   |          |
| <b>PDU Type:</b>           | SETUP_MT_PDU                                                                  |          |
| <b>Derivation Path:</b>    |                                                                               |          |
| <b>Comments:</b>           | A SETUP message containing bearer capability supported by the mobile station. |          |
| Field Name                 | Field Value                                                                   | Comments |
| ti                         | ti                                                                            |          |
| ccpd                       | '0011'B                                                                       |          |
| mt                         | '00000101'B                                                                   |          |
| bcri                       | OMIT                                                                          |          |
| bcap1                      | par                                                                           |          |
| bcap2                      | OMIT                                                                          |          |
| fie                        | OMIT                                                                          |          |
| pi                         | OMIT                                                                          |          |
| sig                        | OMIT                                                                          |          |
| cgpn                       | OMIT                                                                          |          |
| cgps                       | OMIT                                                                          |          |
| cdpn                       | OMIT                                                                          |          |
| cdps                       | OMIT                                                                          |          |
| llcri                      | OMIT                                                                          |          |
| llcmp1                     | OMIT                                                                          |          |
| llcmp2                     | OMIT                                                                          |          |
| hlcric1                    | OMIT                                                                          |          |
| hlcmp1                     | OMIT                                                                          |          |
| hlcmp2                     | OMIT                                                                          |          |
| uu                         | OMIT                                                                          |          |
| <b>Detailed Comments:</b>  |                                                                               |          |



| 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>Comments:</b>           | A SETUP message containing two bearer capabilities supported by the mobile station. |          |
| Field Name                 | Field Value                                                                         | Comments |
| ti                         | ti                                                                                  |          |
| ccpd                       | '0011'B                                                                             |          |
| mt                         | '00000101'B                                                                         |          |
| bcri                       | par1                                                                                |          |
| bcap1                      | par2                                                                                |          |
| bcap2                      | par3                                                                                |          |
| fie                        | OMIT                                                                                |          |
| pi                         | OMIT                                                                                |          |
| sig                        | OMIT                                                                                |          |
| cgpn                       | OMIT                                                                                |          |
| cgps                       | OMIT                                                                                |          |
| cdpn                       | OMIT                                                                                |          |
| cdps                       | OMIT                                                                                |          |
| llcri                      | OMIT                                                                                |          |
| llcmp1                     | OMIT                                                                                |          |
| llcmp2                     | OMIT                                                                                |          |
| hlcri                      | OMIT                                                                                |          |
| hlcmp1                     | OMIT                                                                                |          |
| hlcmp2                     | OMIT                                                                                |          |
| uu                         | OMIT                                                                                |          |
| <b>Detailed Comments:</b>  |                                                                                     |          |

| PDU Constraint Declaration |                                                            |          |
|----------------------------|------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Setup_inv_01(ti: TI)                                       |          |
| <b>PDU Type:</b>           | SETUP_MT_PDU                                               |          |
| <b>Derivation Path:</b>    |                                                            |          |
| <b>Comments:</b>           | A SETUP message with ti_f value = 1 as an invalid message. |          |
| Field Name                 | Field Value                                                | Comments |
| ti                         | ti                                                         |          |
| ccpd                       | '0011'B                                                    |          |
| mt                         | '00000101'B                                                |          |
| bcri                       | OMIT                                                       |          |
| bcap1                      | OMIT                                                       |          |
| bcap2                      | OMIT                                                       |          |
| fie                        | OMIT                                                       |          |
| pi                         | OMIT                                                       |          |
| sig                        | OMIT                                                       |          |
| cgpn                       | OMIT                                                       |          |
| cgps                       | OMIT                                                       |          |
| cdpn                       | OMIT                                                       |          |
| cdps                       | OMIT                                                       |          |
| llcri                      | OMIT                                                       |          |
| llcmp1                     | OMIT                                                       |          |
| llcmp2                     | OMIT                                                       |          |
| hlcri                      | OMIT                                                       |          |
| hlcmp1                     | OMIT                                                       |          |
| hlcmp2                     | OMIT                                                       |          |
| uu                         | OMIT                                                       |          |
| <b>Detailed Comments:</b>  |                                                            |          |

| PDU Constraint Declaration |                                                    |          |
|----------------------------|----------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Setup_inv_02(ti: TI)                               |          |
| <b>PDU Type:</b>           | SETUP_MT_PDU                                       |          |
| <b>Derivation Path:</b>    |                                                    |          |
| <b>Comments:</b>           | An invalid SETUP message with arbitrary spare bits |          |
| Field Name                 | Field Value                                        | Comments |
| ti                         | ti                                                 |          |
| ccpd                       | '0011'B                                            |          |
| mt                         | '00000101'B                                        |          |
| bcric                      | OMIT                                               |          |
| bcap1                      | OMIT                                               |          |
| bcap2                      | OMIT                                               |          |
| fi                         | OMIT                                               |          |
| pi                         | OMIT                                               |          |
| sig                        | Signal_01                                          |          |
| cgpn                       | Cgpn_01                                            |          |
| cgps                       | Cgps_01                                            |          |
| cdpn                       | Cdpn_01                                            |          |
| cdps                       | Cdps_01                                            |          |
| llcri                      | OMIT                                               |          |
| llcmp1                     | OMIT                                               |          |
| llcmp2                     | OMIT                                               |          |
| hlcri                      | OMIT                                               |          |
| hlcmp1                     | OMIT                                               |          |
| hlcmp2                     | OMIT                                               |          |
| uu                         | OMIT                                               |          |
| <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>Comments:</b>           | To send a SMSCB message, first block |          |
| Field Name                 | Field Value                          | Comments |
| blocktype                  | Blocktype_01('0000'B, '0'B)          |          |
| serial_number              | sernum                               |          |
| message_id                 | '0000'O                              |          |
| dcs                        | Tpdcs_05                             |          |
| page_param                 | '00010001'B                          |          |
| message_contents           | OC_CodeSMSCBMessage(1, 16)           |          |
| <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>Comments:</b>           | To send a SMSCB message, second to fourth block (depending on sequence number) |          |
| Field Name                 | Field Value                                                                    | Comments |
| blocktype                  | Blocktype_01(seqnum, lb)                                                       |          |
| serial_number              | OMIT                                                                           |          |
| message_id                 | OMIT                                                                           |          |
| dcs                        | OMIT                                                                           |          |
| page_param                 | OMIT                                                                           |          |
| message_contents           | OC_CodeSMSCBMessage(firstoct, 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>Comments:</b>           | To match any received SETUP message |          |
| Field Name                 | Field Value                         | Comments |
| ti                         | Tl_09                               |          |
| ccpd                       | '0011'B                             |          |
| mt                         | '0?000101'B                         |          |
| bcri                       | *                                   |          |
| bcap1                      | ?                                   |          |
| bcap2                      | *                                   |          |
| fie                        | *                                   |          |
| cgps                       | *                                   |          |
| cdpn                       | ?                                   |          |
| cdps                       | *                                   |          |
| llcri                      | *                                   |          |
| llcmp1                     | *                                   |          |
| llcmp2                     | *                                   |          |
| hlcri                      | *                                   |          |
| hlcmp1                     | *                                   |          |
| hlcmp2                     | *                                   |          |
| uu                         | *                                   |          |
| ssvi                       | *                                   |          |
| clirsup                    | *                                   |          |
| clirinv                    | *                                   |          |
| cccapp                     | 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>Comments:</b>           |                                            |          |
| Field Name                 | Field Value                                | Comments |
| ti                         | Ti                                         |          |
| ccpd                       | '0011'B                                    |          |
| mt                         | '0?110101'B                                |          |
| kpf                        | KeyPad_01(character)                       |          |
| <b>Detailed Comments:</b>  |                                            |          |

| PDU Constraint Declaration |                      |          |
|----------------------------|----------------------|----------|
| <b>Constraint Name:</b>    | StartDtmf_02(Ti: Tl) |          |
| <b>PDU Type:</b>           | START_DTMF_PDU       |          |
| <b>Derivation Path:</b>    |                      |          |
| <b>Comments:</b>           |                      |          |
| Field Name                 | Field Value          | Comments |
| ti                         | Ti                   |          |
| ccpd                       | '0011'B              |          |
| mt                         | '0?110101'B          |          |
| kpf                        | KeyPad_02            |          |
| <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>Comments:</b>           |                                               |          |
| Field Name                 | Field Value                                   | Comments |
| ti                         | Ti                                            |          |
| ccpd                       | '0011'B                                       |          |
| mt                         | '00110110'B                                   |          |
| kpf                        | KeyPad_01(character)                          |          |
| <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>Comments:</b>           |                         |          |
| Field Name                 | Field Value             | Comments |
| ti                         | Ti                      |          |
| ccpd                       | '0011'B                 |          |
| mt                         | '00110111'B             |          |
| cau                        | Cause_15                |          |
| <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>Comments:</b>           |                     |          |
| Field Name                 | Field Value         | Comments |
| ti                         | Ti                  |          |
| ccpd                       | '0011'B             |          |
| mt                         | '0?110001'B         |          |
| <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>Comments:</b>           |                        |          |
| Field Name                 | Field Value            | Comments |
| ti                         | Ti                     |          |
| ccpd                       | '0011'B                |          |
| mt                         | '00110010'B            |          |
| <b>Detailed Comments:</b>  |                        |          |

| PDU Constraint Declaration |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Synclnfor(bcc: BCC; ncc: NCC)                                                                                                                                                                                                                                                                                                                                                                                                                         |          |
| <b>PDU Type:</b>           | SCHINFO_PDU                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |
| <b>Derivation Path:</b>    |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
| <b>Comments:</b>           |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
| Field Name                 | Field Value                                                                                                                                                                                                                                                                                                                                                                                                                                           | Comments |
| ncc                        | ncc                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |
| bcc                        | bcc                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |
| 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>Comments:</b>           | Default parameters for cell A in RR testing of GSM 900 |          |
| Field Name                 | Field Value                                            | Comments |
| l2_pl                      | '55'O                                                  |          |
| ski                        | '0000'B                                                |          |
| rrpd                       | '0110'B                                                |          |
| mt                         | '00011001'B                                            |          |
| cchd                       | cchd                                                   |          |
| rachcp                     | RachCntrlPara(maxtx, txint, re)                        |          |
| si1roct                    | '2B'O                                                  |          |
| <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>Comments:</b>           | SYSTEM INFORMATION TYPE2 containing default neighbour cells description |          |
| Field Name                 | Field Value                                                             | Comments |
| l2_pl                      | '59'O                                                                   |          |
| ski                        | '0000'B                                                                 |          |
| rrpd                       | '0110'B                                                                 |          |
| mt                         | '00011010'B                                                             |          |
| bcchfl                     | bcchfl                                                                  |          |
| nccp                       | nccp                                                                    |          |
| rachcp                     | RachCntrlPara(maxtx, txint, re)                                         |          |
| <b>Detailed Comments:</b>  |                                                                         |          |

| PDU Constraint Declaration |                                                                                      |          |
|----------------------------|--------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | SysInf2bis                                                                           |          |
| <b>PDU Type:</b>           | SYSINFO2bis_PDU                                                                      |          |
| <b>Derivation Path:</b>    |                                                                                      |          |
| <b>Comments:</b>           | SYSTEM INFORMATION 2bis in cell A under EGSM with the ARFCN list = {988, 990, 1003}. |          |
| Field Name                 | Field Value                                                                          | Comments |
| l2_pl                      | '55'O                                                                                |          |
| ski                        | '0000'B                                                                              |          |
| rrpd                       | '0110'B                                                                              |          |
| mt                         | '00000010'B                                                                          |          |
| xbcchfl                    | BcchFreqLst_47                                                                       |          |
| rachcp                     | RachCntrlPara_r01                                                                    |          |
| si2bisroct                 | '00'O                                                                                |          |
| <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>Comments:</b>           | CCCH combined or not with SDCCH                                                                                               |          |
| Field Name                 | Field Value                                                                                                                   | Comments |
| l2_pl                      | '49'O                                                                                                                         |          |
| ski                        | '0000'B                                                                                                                       |          |
| rrpd                       | '0110'B                                                                                                                       |          |
| mt                         | '00011011'B                                                                                                                   |          |
| ci                         | ci                                                                                                                            |          |
| lai                        | LocAreald(mcc, mnc, lac)                                                                                                      |          |
| ccd                        | ccd                                                                                                                           |          |
| co                         | co                                                                                                                            |          |
| csp                        | CellSelPara(crh, mtmc, neci)                                                                                                  |          |
| rachcp                     | RachCntrlPara(maxtx, txint, re)                                                                                               |          |
| si3roct                    | '2B2B2B2B'O                                                                                                                   |          |
| <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>Comments:</b>           | An invalid SYSTEM INFORMATION TYPE 3 message containing rest octets which are not all '2B'O |          |
| Field Name                 | Field Value                                                                                 | Comments |
| l2_pl                      | '49'O                                                                                       |          |
| ski                        | '0000'B                                                                                     |          |
| rrpd                       | '0110'B                                                                                     |          |
| mt                         | '00011011'B                                                                                 |          |
| ci                         | C_ci_cellA                                                                                  |          |
| lai                        | LocAreald(mcc, mnc, lac)                                                                    |          |
| ccd                        | CntrlChDscrp_inv                                                                            |          |
| co                         | CellOpt_04                                                                                  |          |
| csp                        | CellSelPara_01                                                                              |          |
| rachcp                     | RachCntrlPara_01                                                                            |          |
| si3roct                    | '2B2B2BEE'O                                                                                 |          |
| <b>Detailed Comments:</b>  |                                                                                             |          |

| PDU Constraint Declaration |                                                                                                     |          |
|----------------------------|-----------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Syslnf4(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>Comments:</b>           | A SYSTEM INFORMATION TYPE 4 message containing default values                                       |          |
| Field Name                 | Field Value                                                                                         | Comments |
| l2_pl                      | '31'O                                                                                               |          |
| ski                        | '0000'B                                                                                             |          |
| rrpd                       | '0110'B                                                                                             |          |
| mt                         | '00011100'B                                                                                         |          |
| lai                        | LocAreald(mcc, mnc, lac)                                                                            |          |
| csp                        | CellSelPara(crh, mtmc, neci)                                                                        |          |
| rachcp                     | RachCntrlPara(maxtx, txint, re)                                                                     |          |
| cbchd                      | OMIT                                                                                                |          |
| cbchma                     | OMIT                                                                                                |          |
| si4roct                    | '2B2B2B2B2B2B2B2B2B'O                                                                               |          |
| <b>Detailed Comments:</b>  |                                                                                                     |          |

| PDU Constraint Declaration |                                                                                                                      |          |
|----------------------------|----------------------------------------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Syslnf4_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>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                                                                                                          | Comments |
| l2_pl                      | '49'O                                                                                                                |          |
| ski                        | '0000'B                                                                                                              |          |
| rrpd                       | '0110'B                                                                                                              |          |
| mt                         | '00011100'B                                                                                                          |          |
| lai                        | LocAreald(mcc, mnc, lac)                                                                                             |          |
| csp                        | CellSelPara(crh, mtmc, neci)                                                                                         |          |
| rachcp                     | RachCntrlPara(maxtx, txint, re)                                                                                      |          |
| cbchd                      | cbchd                                                                                                                |          |
| cbchma                     | MobIAlc_01iei                                                                                                        |          |
| si4roct                    | '2B2B2B2B'O                                                                                                          |          |
| <b>Detailed Comments:</b>  |                                                                                                                      |          |

| PDU Constraint Declaration |                                                                                      |          |
|----------------------------|--------------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | Syslnf4_inv_01(mcc, mnc, lac: OCTETSTRING)                                           |          |
| <b>PDU Type:</b>           | SYSINFO4_PDU                                                                         |          |
| <b>Derivation Path:</b>    |                                                                                      |          |
| <b>Comments:</b>           | An invalid SYSTEM INFORMATION message containing rest octets which are not all '2B'O |          |
| Field Name                 | Field Value                                                                          | Comments |
| l2_pl                      | '31'O                                                                                |          |
| ski                        | '0000'B                                                                              |          |
| rrpd                       | '0110'B                                                                              |          |
| mt                         | '00011100'B                                                                          |          |
| lai                        | LocAreald(mcc, mnc, lac)                                                             |          |
| csp                        | CellSelPara_01                                                                       |          |
| rachcp                     | RachCntrlPara_01                                                                     |          |
| cbchd                      | OMIT                                                                                 |          |
| cbchma                     | OMIT                                                                                 |          |
| si4roct                    | '2B2B2B2B2B2B2B2B2BEE'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>Comments:</b>           | SYSTEM INFORMATION TYPE 5 containing default neighbour cells description for GSM900 |          |
| Field Name                 | Field Value                                                                         | 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>Comments:</b>           | SYSTEM INFORMATION TYPE 5bis containing partial neighbour cells description with 1 frequency for DCS1800. |          |
| Field Name                 | Field Value                                                                                               | Comments |
| ski                        | '0000'B                                                                                                   |          |
| rrpd                       | '0110'B                                                                                                   |          |
| mt                         | '00000101'B                                                                                               |          |
| xbcchfl                    | bcchfl                                                                                                    |          |
| <b>Detailed Comments:</b>  |                                                                                                           |          |

| PDU Constraint Declaration |                                                                                   |          |
|----------------------------|-----------------------------------------------------------------------------------|----------|
| <b>Constraint Name:</b>    | SysInf6(ci: CI; mcc, mnc, lac: OCTETSTRING; co: CO)                               |          |
| <b>PDU Type:</b>           | SYSINFO6_PDU                                                                      |          |
| <b>Derivation Path:</b>    |                                                                                   |          |
| <b>Comments:</b>           | A SYSTEM INFORMATION TYPE 6 message containing default parameters for RR testing. |          |
| Field Name                 | Field Value                                                                       | Comments |
| ski                        | '0000'B                                                                           |          |
| rrpd                       | '0110'B                                                                           |          |
| mt                         | '00011110'B                                                                       |          |
| ci                         | ci                                                                                |          |
| lai                        | LocAreald(mcc, mnc, lac)                                                          |          |
| co                         | co                                                                                |          |
| nccp                       | '02'O                                                                             |          |
| <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>Comments:</b>           | TMSI REALLOCATION COMMAND message.                  |          |
| Field Name                 | Field Value                                         | Comments |
| ski                        | '0000'B                                             |          |
| mmpd                       | '0101'B                                             |          |
| mt                         | '00011010'B                                         |          |
| lai                        | LocAreald(mcc, mnc, lac)                            |          |
| mi                         | par                                                 |          |
| <b>Detailed Comments:</b>  |                                                     |          |



| PDU Constraint Declaration |                                     |          |
|----------------------------|-------------------------------------|----------|
| <b>Constraint Name:</b>    | TmsiReallocComp                     |          |
| <b>PDU Type:</b>           | TMSIRE_COM_PDU                      |          |
| <b>Derivation Path:</b>    |                                     |          |
| <b>Comments:</b>           | TMSI REALLOCATION COMPLETE message. |          |
| Field Name                 | Field Value                         | 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>Comments:</b>           | This is an undefined CC message |          |
| Field Name                 | Field Value                     | Comments |
| ti                         | Ti                              |          |
| ccpd                       | '0011'B                         |          |
| mt                         | '00111111'B                     |          |
| fie                        | OMIT                            |          |
| pi                         | OMIT                            |          |
| cnn                        | OMIT                            |          |
| cns                        | OMIT                            |          |
| uu                         | OMIT                            |          |
| ssvi                       | OMIT                            |          |
| <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>Comments:</b>           | This is an undefined MM message |          |
| Field Name                 | Field Value                     | Comments |
| ski                        | '0000'B                         |          |
| mmpd                       | '0101'B                         |          |
| mt                         | '00100101'B                     |          |
| mi                         | Mi_05                           |          |
| <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>Comments:</b>           | An undefined RR message |          |
| Field Name                 | Field Value             | Comments |
| ski                        | '0000'B                 |          |
| rrpd                       | '0110'B                 |          |
| mt                         | '00100101'B             |          |
| chd                        | Chd_01                  |          |
| <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>Comments:</b>           | CC STATUS ENQUIRY alike unknown message |          |
| Field Name                 | Field Value                             | Comments |
| ti                         | ti                                      |          |
| ccpd                       | '0000'B                                 |          |
| mt                         | '00110100'B                             |          |
| <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>Comments:</b>           | CC STATUS ENQUIRY alike unknown message with arbitrary transaction ID. |          |
| Field Name                 | Field Value                                                            | Comments |
| ti                         | ti                                                                     |          |
| ccpd                       | '0000'B                                                                |          |
| mt                         | '00110100'B                                                            |          |
| <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>Comments:</b>           | CP DATA ACKNOWLEDGE ms -> n |          |
| Field Name                 | Field Value                 | Comments |
| ti                         | ti                          |          |
| smspd                      | '1001'B                     |          |
| mt                         | '00000100'B                 |          |
| <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>Comments:</b>           | CP DATA ACKNOWLEDGE n -> ms |          |
| Field Name                 | Field Value                 | Comments |
| ti                         | ti                          |          |
| smspd                      | '1001'B                     |          |
| mt                         | '00000100'B                 |          |
| <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>Comments:</b>           | CP DATA ACKNOWLEDGE n -> ms, MO-SMS |          |
| Field Name                 | Field Value                         | Comments |
| ti                         | ti                                  |          |
| smspd                      | '1001'B                             |          |
| mt                         | '00000100'B                         |          |
| <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>Comments:</b>           | CP ERROR n -> ms<br>GSM 04.11 |          |
| Field Name                 | Field Value                   | Comments |
| ti                         | ti                            |          |
| smspd                      | '1001'B                       |          |
| mt                         | '00010000'B                   |          |
| cp_cause                   | '11'O                         |          |
| <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>Comments:</b>           | CP DATA n -> ms, RP DATA, TP-DCS set to 0<br>GSM 04.11 |          |
| Field Name                 | Field Value                                            | Comments |
| ti                         | ti                                                     |          |
| smspd                      | '1001'B                                                |          |
| mt                         | '00000001'B                                            |          |
| 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>Comments:</b>           | CP DATA ms -> n, RP Acknowledge<br>GSM 04.11 |          |
| Field Name                 | Field Value                                  | Comments |
| ti                         | ti                                           |          |
| smspd                      | '1001'B                                      |          |
| mt                         | '00000001'B                                  |          |
| 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>Comments:</b>           | CP DATA ms -> n, RP data, TP-DCS set to 0, no status report requested<br>GSM 04.11 |          |
| Field Name                 | Field Value                                                                        | Comments |
| ti                         | TI_09                                                                              |          |
| smspd                      | '1001'B                                                                            |          |
| mt                         | '00000001'B                                                                        |          |
| CPdata                     | cpdat                                                                              |          |
| <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>Comments:</b>           | CP DATA n -> ms, RP Acknowledge<br>GSM 04.11 |          |
| Field Name                 | Field Value                                  | Comments |
| ti                         | TI_09                                        |          |
| smspd                      | '1001'B                                      |          |
| mt                         | '00000001'B                                  |          |
| CPdata                     | ?                                            |          |
| <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>Comments:</b>           | CP DATA ms -> n<br>GSM 04.11 |          |
| Field Name                 | Field Value                  | Comments |
| ti                         | ?                            |          |
| smspd                      | '1001'B                      |          |
| mt                         | '00000001'B                  |          |
| 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; rprm: MR; timezone: TZONES) |          |
| <b>PDU Type:</b>           | CP_DATA_PDU                                                                                                    |          |
| <b>Derivation Path:</b>    |                                                                                                                |          |
| <b>Comments:</b>           | CP DATA n -> ms, RP DATA, TP-DCS set to 0<br>GSM 04.11                                                         |          |
| Field Name                 | Field Value                                                                                                    | Comments |
| ti                         | ti                                                                                                             |          |
| smspd                      | '1001'B                                                                                                        |          |
| mt                         | '00000001'B                                                                                                    |          |
| CPdata                     | CpData_15(tpoa1, rpoa_mt, smtype, text, rprm, 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>Comments:</b>           | CP DATA n -> ms, RP DATA, TP-DCS set to 0<br>GSM 04.11                                        |          |
| Field Name                 | Field Value                                                                                   | Comments |
| ti                         | ti                                                                                            |          |
| smspd                      | '1001'B                                                                                       |          |
| mt                         | '00000001'B                                                                                   |          |
| 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>Comments:</b>           | CP DATA ms -> n, RP data, TP-DCS set to 0, no status report requested<br>GSM 04.11 |          |
| Field Name                 | Field Value                                                                        | Comments |
| ti                         | TI_09                                                                              |          |
| smspd                      | '1001'B                                                                            |          |
| mt                         | '00000001'B                                                                        |          |
| CPdata                     | CpData_17(tpda, rpda, tpud)                                                        |          |
| <b>Detailed Comments:</b>  |                                                                                    |          |

## Dynamic Part

### Test Cases

#### Test Group General

| Test Case Dynamic Behaviour                                                                                                                                                                                                                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Case Name:</b> TC_11_1_1                                                                                                                                                                                                                                                                        |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| <b>Group:</b> GSM_L3_MS_v4180/General/                                                                                                                                                                                                                                                                  |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| <b>Purpose:</b> 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.                                                                                                                                                                                          |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| <b>Default:</b> OtherEventsFail                                                                                                                                                                                                                                                                         |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| Nr                                                                                                                                                                                                                                                                                                      | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef | V | Comments |
| 1                                                                                                                                                                                                                                                                                                       |       | START T_guard(1800)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| 2                                                                                                                                                                                                                                                                                                       |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immss, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Reestablishment, 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]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   |          |
|                                                                                                                                                                                                                                                                                                         |       | <b>testTS11</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| 13                                                                                                                                                                                                                                                                                                      |       | +test(C_Telephony, TSPC_Serv_TS11)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
|                                                                                                                                                                                                                                                                                                         |       | <b>testTS61</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| 14                                                                                                                                                                                                                                                                                                      |       | +test(C_AltSpchFax, TSPC_Serv_TS61)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
|                                                                                                                                                                                                                                                                                                         |       | <b>testTS62</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| 15                                                                                                                                                                                                                                                                                                      |       | +test(C_AutoFax, TSPC_Serv_TS62)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
|                                                                                                                                                                                                                                                                                                         |       | <b>testBs2x</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| 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)                                                                                     |                                                                            |     |    |
|                           | <b>testBS3x</b>                                                                                                        |                                                                            |     |    |
| 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)                                                                                      |                                                                            |     |    |
|                           | <b>testBS61</b>                                                                                                        |                                                                            |     |    |
| 25                        | +test(C_AltSpchData, TSPC_Serv_BS61)                                                                                   |                                                                            |     |    |
|                           | <b>testBS81</b>                                                                                                        |                                                                            |     |    |
| 26                        | +test(C_SpchData, TSPC_Serv_BS81)                                                                                      |                                                                            |     |    |
|                           | <b>test(srv:SERVICES; supported:BOOLEAN)</b>                                                                           |                                                                            |     |    |
| 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]                                                                                     |                                                                            |     |    |
|                           | <b>SetupAndCheck(supported:BOOLEAN)</b>                                                                                |                                                                            |     |    |
| 34                        | +PreEstRRConn(TCV_slot, TCV_tsc, TimingAdv(0))                                                                         |                                                                            |     |    |
| 35                        | +Authentication(TCV_ch, TSPX_CKSNDDef,<br>TSPX_RANDDef)                                                                |                                                                            |     |    |
| 36                        | +Cipherring_on(TCV_ch)                                                                                                 |                                                                            |     |    |
| 37                        | LIDL_DatRqSetup                                                                                                        | SetupSnd(TCV_ch,<br>TCV_Setup_mt)                                          |     |    |
| 38                        | +check(supported)                                                                                                      |                                                                            |     |    |
| 39                        | +PostMainLinkRel(TCV_ch)                                                                                               |                                                                            |     |    |
| 40                        | (TCV_Null := OM_CphMd(TCV_ch,<br>CphMod_02, TCV_CphKey))                                                               |                                                                            |     | 3. |
|                           | <b>check(supported:BOOLEAN)</b>                                                                                        |                                                                            |     |    |
| 41                        | [supported]                                                                                                            |                                                                            |     | 1. |
| 42                        | L?DL_DatInCallCo                                                                                                       | CallCfm(CallConfirm_<br>01(TI_01))                                         | (P) |    |
| 43                        | [NOT supported]                                                                                                        |                                                                            |     | 2. |
| 44                        | L?DL_DatInRelCmp                                                                                                       | RelComRcv(Release<br>Cmp_07(TI_01))                                        | (P) |    |
|                           | <b>local_IFsetup(srv:SERVICES)</b>                                                                                     |                                                                            |     |    |
| 45                        | [(srv = C_AltSpchFax) OR (srv = C_AutoFax)]                                                                            |                                                                            |     |    |
| 46                        | (TCV_Null := OO_IFsetup_TS6x_MT(srv,<br>TCV_ur2))                                                                      |                                                                            |     |    |
| 47                        | [(srv = C_Async300) OR (srv = C_Async1200) OR<br>(srv = C_Async2400) OR (srv = C_Async4800) OR<br>(srv = C_Async9600)] |                                                                            |     |    |
| 48                        | (TCV_Null := OO_IFsetup_BS2x_MT(srv,<br>TCV_itc2))                                                                     |                                                                            |     |    |
| 49                        | [(srv = C_Sync1200) OR (srv = C_Sync2400) OR (srv =<br>C_Sync4800) OR (srv = C_Sync9600)]                              |                                                                            |     |    |
| 50                        | (TCV_Null := OO_IFsetup_BS3x_MT(srv, TCV_itc2,<br>TCV_sacp2))                                                          |                                                                            |     |    |
| 51                        | [(srv = C_AltSpchData) OR (srv = C_SpchData)]                                                                          |                                                                            |     |    |
| 52                        | (TCV_Null := OO_IFsetup_BS61orBS81_MT(srv,<br>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-cipherring mode for next test execution. |     |    |

### Test Case Dynamic Behaviour

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_11_1_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Group:</b>          | GSM_L3_MS_v4180/General/                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purpose:</b>        | <p>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.</p> <p>This is verified for all Mobile Originated Bearer Services / Teleservices described in GSM 07.01 and declared as supported by the MS.</p> <p>2. To verify that the MS includes a correctly encoded Repeat Indicator if it includes multiple Bearer Capabilities in the SETUP message.</p> |
| <b>Default:</b>        | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CRef | V | Comments |
|----|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| 1  |       | START T_guard(6000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| 2  |       | +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_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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
|    |       | <b>continue</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
| 14 |       | +testBS31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| 15 |       | +testBS32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| 16 |       | +testBS33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| 17 |       | +testBS34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| 18 |       | +testBS41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| 19 |       | +testBS42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| 20 |       | +testBS43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| 21 |       | +testBS44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| 22 |       | +testBS45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| 23 |       | +testBS46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| 24 |       | +testBS51                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| 25 |       | +testBS52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| 26 |       | +testBS53                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| 27 |       | +testBS61                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| 28 |       | +testBS81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
|    |       | <b>testTS11</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
| 29 |       | [TSPC_Serv_TS11]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| 30 |       | +check(C_Telephony)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   | TS11     |
| 31 |       | [NOT TSPC_Serv_TS11]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
|    |       | <b>testTS12</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
| 32 |       | [TSPC_Serv_TS12]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| 33 |       | +check(C_EmgCall)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   | TS12     |
| 34 |       | [NOT TSPC_Serv_TS12]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |



|    |                       |  |      |
|----|-----------------------|--|------|
| 35 | <b>testTS61</b>       |  |      |
| 36 | [TSPC_Serv_TS61]      |  |      |
| 36 | +check(C_AltSpchFax)  |  | TS61 |
| 37 | [NOT TSPC_Serv_TS61]  |  |      |
|    | <b>testTS62</b>       |  |      |
| 38 | [TSPC_Serv_TS62]      |  |      |
| 39 | +check(C_AutoFax)     |  | TS62 |
| 40 | [NOT TSPC_Serv_TS62]  |  |      |
|    | <b>testBS21</b>       |  |      |
| 41 | [TSPC_Serv_BS21]      |  |      |
| 42 | +check(C_Async300)    |  | BS21 |
| 43 | [NOT TSPC_Serv_BS21]  |  |      |
|    | <b>testBS22</b>       |  |      |
| 44 | [TSPC_Serv_BS22]      |  |      |
| 45 | +check(C_Async1200)   |  | BS22 |
| 46 | [NOT TSPC_Serv_BS22]  |  |      |
|    | <b>testBS23</b>       |  |      |
| 47 | [TSPC_Serv_BS23]      |  |      |
| 48 | +check(C_Async120075) |  | BS23 |
| 49 | [NOT TSPC_Serv_BS23]  |  |      |
|    | <b>testBS24</b>       |  |      |
| 50 | [TSPC_Serv_BS24]      |  |      |
| 51 | +check(C_Async2400)   |  | BS24 |
| 52 | [NOT TSPC_Serv_BS24]  |  |      |
|    | <b>testBS25</b>       |  |      |
| 53 | [TSPC_Serv_BS25]      |  |      |
| 54 | +check(C_Async4800)   |  | BS25 |
| 55 | [NOT TSPC_Serv_BS25]  |  |      |
|    | <b>testBS26</b>       |  |      |
| 56 | [TSPC_Serv_BS26]      |  |      |
| 57 | +check(C_Async9600)   |  | BS26 |
| 58 | [NOT TSPC_Serv_BS26]  |  |      |
|    | <b>testBS31</b>       |  |      |
| 59 | [TSPC_Serv_BS31]      |  |      |
| 60 | +check(C_Sync1200)    |  | BS31 |
| 61 | [NOT TSPC_Serv_BS31]  |  |      |
|    | <b>testBS32</b>       |  |      |
| 62 | [TSPC_Serv_BS32]      |  |      |
| 63 | +check(C_Sync2400)    |  | BS32 |
| 64 | [NOT TSPC_Serv_BS32]  |  |      |
|    | <b>testBS33</b>       |  |      |
| 65 | [TSPC_Serv_BS33]      |  |      |
| 66 | +check(C_Sync4800)    |  | BS33 |
| 67 | [NOT TSPC_Serv_BS33]  |  |      |
|    | <b>testBS34</b>       |  |      |
| 68 | [TSPC_Serv_BS34]      |  |      |
| 69 | +check(C_Sync9600)    |  | BS34 |
| 70 | [NOT TSPC_Serv_BS34]  |  |      |
|    | <b>testBS41</b>       |  |      |
| 71 | [TSPC_Serv_BS41]      |  |      |
| 72 | +check(C_PAD300)      |  | BS41 |
| 73 | [NOT TSPC_Serv_BS41]  |  |      |

|     |                                                                                  |                                                                                                                                                                    |                         |
|-----|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 74  | <b>testBS42</b>                                                                  |                                                                                                                                                                    |                         |
| 75  | [TSPC_Serv_BS42]                                                                 |                                                                                                                                                                    |                         |
| 76  | +check(C_PAD1200)                                                                | BS42                                                                                                                                                               |                         |
| 76  | [NOT TSPC_Serv_BS42]                                                             |                                                                                                                                                                    |                         |
|     | <b>testBS43</b>                                                                  |                                                                                                                                                                    |                         |
| 77  | [TSPC_Serv_BS43]                                                                 |                                                                                                                                                                    |                         |
| 78  | +check(C_PAD120075)                                                              | BS43                                                                                                                                                               |                         |
| 79  | [NOT TSPC_Serv_BS43]                                                             |                                                                                                                                                                    |                         |
|     | <b>testBS44</b>                                                                  |                                                                                                                                                                    |                         |
| 80  | [TSPC_Serv_BS44]                                                                 |                                                                                                                                                                    |                         |
| 81  | +check(C_PAD2400)                                                                | BS44                                                                                                                                                               |                         |
| 82  | [NOT TSPC_Serv_BS44]                                                             |                                                                                                                                                                    |                         |
|     | <b>testBS45</b>                                                                  |                                                                                                                                                                    |                         |
| 83  | [TSPC_Serv_BS45]                                                                 |                                                                                                                                                                    |                         |
| 84  | +check(C_PAD4800)                                                                | BS45                                                                                                                                                               |                         |
| 85  | [NOT TSPC_Serv_BS45]                                                             |                                                                                                                                                                    |                         |
|     | <b>testBS46</b>                                                                  |                                                                                                                                                                    |                         |
| 86  | [TSPC_Serv_BS46]                                                                 |                                                                                                                                                                    |                         |
| 87  | +check(C_PAD9600)                                                                | BS46                                                                                                                                                               |                         |
| 88  | [NOT TSPC_Serv_BS46]                                                             |                                                                                                                                                                    |                         |
|     | <b>testBS51</b>                                                                  |                                                                                                                                                                    |                         |
| 89  | [TSPC_Serv_BS51]                                                                 |                                                                                                                                                                    |                         |
| 90  | +check(C_Packet2400)                                                             | BS51                                                                                                                                                               |                         |
| 91  | [NOT TSPC_Serv_BS51]                                                             |                                                                                                                                                                    |                         |
|     | <b>testBS52</b>                                                                  |                                                                                                                                                                    |                         |
| 92  | [TSPC_Serv_BS52]                                                                 |                                                                                                                                                                    |                         |
| 93  | +check(C_Packet4800)                                                             | BS52                                                                                                                                                               |                         |
| 94  | [NOT TSPC_Serv_BS52]                                                             |                                                                                                                                                                    |                         |
|     | <b>testBS53</b>                                                                  |                                                                                                                                                                    |                         |
| 95  | [TSPC_Serv_BS53]                                                                 |                                                                                                                                                                    |                         |
| 96  | +check(C_Packet9600)                                                             | BS53                                                                                                                                                               |                         |
| 97  | [NOT TSPC_Serv_BS53]                                                             |                                                                                                                                                                    |                         |
|     | <b>testBS61</b>                                                                  |                                                                                                                                                                    |                         |
| 98  | [TSPC_Serv_BS61]                                                                 |                                                                                                                                                                    |                         |
| 99  | +check(C_AltSpchData)                                                            | BS61                                                                                                                                                               |                         |
| 100 | [NOT TSPC_Serv_BS61]                                                             |                                                                                                                                                                    |                         |
|     | <b>testBS81</b>                                                                  |                                                                                                                                                                    |                         |
| 101 | [TSPC_Serv_BS81]                                                                 |                                                                                                                                                                    |                         |
| 102 | +check(C_SpchData)                                                               | BS81                                                                                                                                                               |                         |
| 103 | [NOT TSPC_Serv_BS81]                                                             |                                                                                                                                                                    |                         |
|     | <b>check(srv:SERVICES)</b>                                                       |                                                                                                                                                                    |                         |
| 104 | +BasicServiceMO(srv, C_Full)                                                     |                                                                                                                                                                    |                         |
| 105 | +InitCall(srv)                                                                   |                                                                                                                                                                    |                         |
| 106 | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn) | ChReq(ChRequest_1<br>5)                                                                                                                                            |                         |
| 107 | ACTIVATE(OtherEventsFail_02)                                                     |                                                                                                                                                                    | To match ChReq retrans. |
| 108 | L!DL_UdatRqImmass                                                                | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(0)))<br>CMSerReq(CMServic |                         |
| 109 | L?DL_EstInCmsRq                                                                  |                                                                                                                                                                    |                         |

|     |                                                                                                                                                          |          |     |                                    |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----|------------------------------------|
| 110 | ACTIVATE(OtherEventsFail)                                                                                                                                | eReq_01) |     | Restore Normal default             |
| 111 | +Authentication(TCV_ch, TCV_cksn,<br>TSPX_RANDDef)                                                                                                       |          |     |                                    |
| 112 | +Ciphering_on(TCV_ch)                                                                                                                                    |          |     |                                    |
| 113 | +ltree_SetupChk(srv)                                                                                                                                     |          |     |                                    |
| 114 | +PostMainLinkRel(TCV_ch)                                                                                                                                 |          |     |                                    |
| 115 | (TCV_Null :=<br>OM_CphMd(TCV_ch,<br>CphMod_02, TCV_CphKey))                                                                                              |          |     |                                    |
|     | <b>ltree_SetupChk(srv1:SERVICES)</b>                                                                                                                     |          |     |                                    |
| 116 | +RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup,<br>TCV_Ecall)                                                                                                |          |     |                                    |
| 117 | [(srv1 = C_Telephony) OR (srv1 = C_EmgCall)]                                                                                                             |          | (P) | no further check for TS11,<br>TS12 |
| 118 | [(srv1 = C_Packet2400) OR (srv1 = C_Packet4800)<br>OR (srv1 = C_Packet9600)]                                                                             |          | (P) | no further check for BS5x          |
| 119 | [(srv1 = C_Async300) OR (srv1 = C_Async1200)<br>OR (srv1 = C_Async120075) OR (srv1 =<br>C_Async2400) OR (srv1 = C_Async4800) OR (srv1<br>= C_Async9600)] |          |     |                                    |
| 120 | +local_BS2x_more_chk(srv1)                                                                                                                               |          |     | further check for BS2x             |
| 121 | [(srv1 = C_Sync1200) OR (srv1 = C_Sync2400) OR<br>(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<br>(srv1 = C_PAD120075) OR (srv1 = C_PAD2400)<br>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(TSPX_BS_61_A_<br>ur1_T_NT)                                                                                                    |          |     | further check for BS61             |
| 127 | [srv1 = C_SpchData]                                                                                                                                      |          |     |                                    |
| 128 | +local_BS61orBS81_more_chk(TSPX_BS_81_A_<br>ur1_T_NT)                                                                                                    |          |     | further check for BS81             |
| 129 | [(srv1 = C_AltSpchFax) OR (srv1 = C_AutoFax)]                                                                                                            |          | (P) | no further check for TS61,<br>TS62 |
|     | <b>local_BS4x_more_chk(srv2:SERVICES)</b>                                                                                                                |          |     |                                    |
| 130 | [srv2 = C_PAD300]                                                                                                                                        |          |     |                                    |
| 131 | +local_ce_strc_ir_chk(TSPX_BS_41_ce,<br>TSPX_BS_41_T_NT)                                                                                                 |          |     |                                    |
| 132 | [srv2 = C_PAD1200]                                                                                                                                       |          |     |                                    |
| 133 | +local_ce_strc_ir_chk(TSPX_BS_42_ce,<br>TSPX_BS_42_T_NT)                                                                                                 |          |     |                                    |
| 134 | [srv2 = C_PAD120075]                                                                                                                                     |          |     |                                    |
| 135 | +local_ce_strc_ir_chk(TSPX_BS_43_ce,<br>TSPX_BS_43_T_NT)                                                                                                 |          |     |                                    |
| 136 | [srv2 = C_PAD2400]                                                                                                                                       |          |     |                                    |
| 137 | +local_ce_strc_ir_chk(TSPX_BS_44_ce,<br>TSPX_BS_44_T_NT)                                                                                                 |          |     |                                    |
| 138 | [srv2 = C_PAD4800]                                                                                                                                       |          |     |                                    |
| 139 | +local_ce_strc_ir_chk(TSPX_BS_45_ce,<br>TSPX_BS_45_T_NT)                                                                                                 |          |     |                                    |
| 140 | [srv2 = C_PAD9600]                                                                                                                                       |          |     |                                    |
| 141 | +local_ce_strc_ir_chk(TSPX_BS_46_ce,<br>TSPX_BS_46_T_NT)                                                                                                 |          |     |                                    |
|     | <b>local_BS2x_more_chk(srv3:SERVICES)</b>                                                                                                                |          |     |                                    |
| 142 | [srv3 = C_Async300]                                                                                                                                      |          |     |                                    |
| 143 | +local_ce_strc_ir_chk(TSPX_BS_21_ce,<br>TSPX_BS_21_T_NT)                                                                                                 |          |     |                                    |
| 144 | [srv3 = C_Async1200]                                                                                                                                     |          |     |                                    |
| 145 | +local_ce_strc_ir_chk(TSPX_BS_22_ce,<br>TSPX_BS_22_T_NT)                                                                                                 |          |     |                                    |
| 146 | [srv3 = C_Async120075]                                                                                                                                   |          |     |                                    |
| 147 | +local_ce_strc_ir_chk(TSPX_BS_23_ce,<br>TSPX_BS_23_T_NT)                                                                                                 |          |     |                                    |

|     |                                                                                                                                           |     |                         |  |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------|--|
| 148 | [srv3 = C_Async2400]                                                                                                                      |     |                         |  |
| 149 | +local_ce_strc_ir_chk(TSPX_BS_24_ce,<br>TSPX_BS_24_T_NT)                                                                                  |     |                         |  |
| 150 | [srv3 = C_Async4800]                                                                                                                      |     |                         |  |
| 151 | +local_ce_strc_ir_chk(TSPX_BS_25_ce,<br>TSPX_BS_25_T_NT)                                                                                  |     |                         |  |
| 152 | [srv3 = C_Async9600]                                                                                                                      |     |                         |  |
| 153 | +local_ce_strc_ir_chk(TSPX_BS_26_ce,<br>TSPX_BS_26_T_NT)                                                                                  |     |                         |  |
|     | <b>local_BS3x_more_chk(srv4:SERVICES)</b>                                                                                                 |     |                         |  |
| 154 | [srv4 = C_Sync1200]                                                                                                                       | (P) | no further check        |  |
| 155 | [srv4 = C_Sync2400]                                                                                                                       |     |                         |  |
| 156 | [(NOT TSPX_BS_32_X32_T_NT)<br>OR(TSPX_BS_32_itc1 <> C_3100Hz)<br>OR(TSPX_BS_32_sacp1 <> C_X32)<br>OR(TSPX_BS_32_X32_ce <> C_transparent)] | (P) | no further check        |  |
| 157 | [TSPX_BS_32_X32_T_NT AND (TSPX_BS_32_itc1<br>= C_3100Hz) AND (TSPX_BS_32_sacp1 = C_X32)<br>AND (TSPX_BS_32_X32_ce = C_transparent)]       |     |                         |  |
| 158 | +local_ce_strc_ir_chk(TSPX_BS_32_X32_ce,<br>TSPX_BS_32_X32_T_NT)                                                                          |     |                         |  |
| 159 | [srv4 = C_Sync4800]                                                                                                                       |     |                         |  |
| 160 | [(NOT TSPX_BS_33_X32_T_NT)<br>OR(TSPX_BS_33_itc1 <> C_3100Hz)<br>OR(TSPX_BS_33_sacp1 <> C_X32)<br>OR(TSPX_BS_33_X32_ce <> C_transparent)] | (P) | no further check        |  |
| 161 | [TSPX_BS_33_X32_T_NT AND (TSPX_BS_33_itc1<br>= C_3100Hz) AND (TSPX_BS_33_sacp1 = C_X32)<br>AND (TSPX_BS_33_X32_ce = C_transparent)]       |     |                         |  |
| 162 | +local_ce_strc_ir_chk(TSPX_BS_33_X32_ce,<br>TSPX_BS_33_X32_T_NT)                                                                          |     |                         |  |
| 163 | [srv4 = C_Sync9600]                                                                                                                       |     |                         |  |
| 164 | [(NOT TSPX_BS_34_X32_T_NT)<br>OR(TSPX_BS_34_itc1 <> C_3100Hz)<br>OR(TSPX_BS_34_sacp1 <> C_X32)<br>OR(TSPX_BS_34_X32_ce <> C_transparent)] | (P) | no further check        |  |
| 165 | [TSPX_BS_34_X32_T_NT AND (TSPX_BS_34_itc1<br>= C_3100Hz) AND (TSPX_BS_34_sacp1 = C_X32)<br>AND (TSPX_BS_34_X32_ce = C_transparent)]       |     |                         |  |
| 166 | +local_ce_strc_ir_chk(TSPX_BS_34_X32_ce,<br>TSPX_BS_34_X32_T_NT)                                                                          |     |                         |  |
|     | <b>local_ce_strc_ir_chk(ce:B 2; both:BOOLEAN)</b>                                                                                         |     |                         |  |
| 167 | [(NOT both) OR (both AND(TCV_ce =<br>C_nottransparent))]                                                                                  | (P) | no further check needed |  |
| 168 | [both AND (TCV_ce = C_transparent)]                                                                                                       |     |                         |  |
| 169 | (TCV_ce := TCV_Setup_mo1.bcap1.ce, TCV_ir :=<br>TCV_Setup_mo1.bcap1.ir, TCV_strc :=<br>TCV_Setup_mo1.bcap1.strc)                          |     |                         |  |
| 170 | [TCV_ce = C_nottransparent]                                                                                                               | (F) |                         |  |
| 171 | [TCV_ce = C_transparent]                                                                                                                  |     |                         |  |
| 172 | [TCV_strc <> C_Unstructured]                                                                                                              | (F) |                         |  |
| 173 | [TCV_strc = C_Unstructured]                                                                                                               | (P) |                         |  |
| 174 | [(TCV_ce <> C_transparent) AND(TCV_ce <><br>C_nottransparent)]                                                                            |     |                         |  |
| 175 | [(TCV_ir = C_ir_16kbs) AND (TCV_strc =<br>C_SDUintegrity)]                                                                                | (P) |                         |  |
| 176 | [(TCV_ir <> C_ir_16kbs) OR(TCV_strc <><br>C_SDUintegrity)]                                                                                | (F) |                         |  |
|     | <b>local_BS61orBS81_more_chk(both1:BOOLEAN)</b>                                                                                           |     |                         |  |
| 177 | [TCV_sa <> C_Asynchronous]                                                                                                                | (P) | no further check needed |  |
| 178 | [TCV_sa = C_Asynchronous]                                                                                                                 |     |                         |  |
| 179 | +local_ce_strc_ir_chk(TCV_ce, both1)                                                                                                      |     |                         |  |

Detailed Comments:

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                      |     |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_11_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                      |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/General/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      |     |          |
| <b>Purpose:</b>             |       | <p>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.</p> <p>This is verified for one Mobile Terminated Bearer Services / Teleservices described in GSM 07.01 and declared as supported by the MS.</p> <p>2. To verify that the MS includes a correctly encoded Repeat Indicator if it includes multiple Bearer Capabilities in the CALL CONFIRMED message.</p> |                                      |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                      |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CRef                                 | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                      |     |          |
| 2                           |       | +CallCfmGen(TSPX_MTBscSvcD,<br>TSPX_MTChRateD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                      |     | 1.       |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECl_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2)                                                           |                                      |     | 2.       |
| 4                           |       | +RRmtcallprepare(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                      |     |          |
| 5                           |       | L!DL_DatRqSetup                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SetupSnd(TCV_ch,<br>Setup_03(TI_02)) |     | 3.       |
| 6                           |       | L?DL_DatInCallCo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | CallCfm(TCV_CallCf<br>m)             | (P) | 4.       |
| 7                           |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      |     |          |
| 8                           |       | (TCV_Null := OM_CphMd(TCV_ch,<br>CphMod_02, TCV_CphKey))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      |     |          |
| <b>Detailed Comments:</b>   |       | <p>1. To generate a CALL COMKFIRMED based on the required basic service and IXIT parameters, and ask operator to configure the MS for the required basic service.</p> <p>2. To setup physical channel for BCCH,CCCH and SDCCH4 channels.</p> <p>3. To send a SETUP_PDU without bearer capabilities and lower and higher layer compatibility.</p> <p>4. To check whether the received CALL COMFIRM PDU is correct.</p>                                                                                                                                                                                                                                                      |                                      |     |          |

**Test Case Dynamic Behaviour**

**Test Case Name:** TC\_11\_3  
**Group:** GSM\_L3\_MS\_v4180/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.

**Default:** OtherEventsFail

| Nr           | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CRef                                                  | V   | 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_Immss, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, 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            |       | +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.       |
| <b>test1</b> |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                       |     |          |
| 9            |       | +ltree_estMOcall_U4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                       |     |          |
| 10           |       | L!DL_DatRqConn START T_dly(15000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ConnSnd(TCV_chTch                                     |     |          |
|              |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Connect_05(TCV_TI, facilityIEtsndiei(FwdChAdvSS_01))) |     |          |
| 11           |       | L?DL_DatInConnAck                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ConnAckRcv(Connect Ack_02(TCV_TIO))                   |     |          |
| 12           |       | L?DL_DatInFac CANCEL T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | FacilityRcv(FacilityPd u_05(TCV_TIO))                 | (F) |          |
| 13           |       | +release(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                       |     |          |
| 14           |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                       | (P) |          |
| 15           |       | +release(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                       |     |          |
| 16           |       | L?DL_DatInFac CANCEL T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | FacilityRcv(FacilityPd u_05(TCV_TIO))                 | (F) |          |
| 17           |       | +release(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                       |     |          |
| 18           |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                       | (P) |          |
| 19           |       | +release(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                       |     |          |
| <b>test2</b> |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                       |     |          |

|    |                                                                                  |                                                                                                                                       |                         |
|----|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 20 | +ltree_estMOcall_U4                                                              |                                                                                                                                       |                         |
| 21 | LIDL_DatRqFac START T_dly(15000)                                                 | FacilitySnd(TCV_chTch,<br>FacilityPdu_25(TCV_TI,<br>facilityIEtsnd(FwdChAdvSS_01)))                                                   |                         |
| 22 | L?DL_DatInFac CANCEL T_dly                                                       | FacilityRcv(FacilityPdu_05(TCV_TI0))                                                                                                  | (F)                     |
| 23 | +release(TCV_chTch)                                                              |                                                                                                                                       |                         |
| 24 | ?TIMEOUT T_dly                                                                   |                                                                                                                                       | (P)                     |
| 25 | +release(TCV_chTch)                                                              |                                                                                                                                       |                         |
|    | <b>test3</b>                                                                     |                                                                                                                                       |                         |
| 26 | +BasicServiceMT(TSPX_MTBscSvcA,<br>TSPX_MTChRateA)                               |                                                                                                                                       |                         |
| 27 | +RRmtcallprepare(TimingAdv(0))                                                   |                                                                                                                                       |                         |
| 28 | LIDL_DatRqSetup (TCV_TI.ti_f := '0'B,<br>TCV_TI.ti_v := '000'B)                  | SetupSnd(TCV_ch,<br>TCV_Setup_mt)                                                                                                     |                         |
| 29 | L?DL_DatInCallCo                                                                 | CallCfm(CallConfirm_01(TI_01))                                                                                                        |                         |
| 30 | LIDL_DatRqFac START T_dly(15000)                                                 | FacilitySnd(TCV_ch,<br>FacilityPdu_25(TI_02,<br>facilityIEtsnd(FwdChAdvSS_01)))                                                       |                         |
| 31 | L?DL_DatInFac CANCEL T_dly                                                       | FacilityRcv(FacilityPdu_05(TI_01))                                                                                                    | (F)                     |
| 32 | +release(TCV_ch)                                                                 |                                                                                                                                       |                         |
| 33 | ?TIMEOUT T_dly                                                                   |                                                                                                                                       | (P)                     |
| 34 | +release(TCV_ch)                                                                 |                                                                                                                                       |                         |
|    | <b>test4</b>                                                                     |                                                                                                                                       |                         |
| 35 | +BasicServiceMO(TSPX_MOBscSvcB,<br>TSPX_MOChRateB)                               |                                                                                                                                       |                         |
| 36 | +Est_MO_Call(TimingAdv(0), TCV_ChRate)                                           |                                                                                                                                       |                         |
| 37 | LIDL_DatRqFac START T_dly(15000)                                                 | FacilitySnd(TCV_chTch,<br>FacilityPdu_25(TCV_TI,<br>facilityIEtsnd(FwdChAdvSS_01)))                                                   |                         |
| 38 | L?DL_DatInFac CANCEL T_dly                                                       | FacilityRcv(FacilityPdu_05(TCV_TI0))                                                                                                  | (F)                     |
| 39 | +PostMainLinkRel(TCV_chTch)                                                      |                                                                                                                                       |                         |
| 40 | ?TIMEOUT T_dly                                                                   |                                                                                                                                       | (P)                     |
| 41 | +PostMainLinkRel(TCV_chTch)                                                      |                                                                                                                                       |                         |
|    | <b>release(ch: LOGICCH)</b>                                                      |                                                                                                                                       |                         |
| 42 | +PostMainLinkRel(ch)                                                             |                                                                                                                                       |                         |
| 43 | (TCV_Null := OM_CphMd(TCV_ch, CphMod_02,<br>TCV_CphKey))                         |                                                                                                                                       |                         |
|    | <b>ltree_estMOcall_U4</b>                                                        |                                                                                                                                       |                         |
| 44 | +InitCall(TCV_Service)                                                           |                                                                                                                                       |                         |
| 45 | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn) | ChReq(ChRequest_15)                                                                                                                   |                         |
| 46 | ACTIVATE(OtherEventsFail_02)                                                     |                                                                                                                                       | To match ChReq retrans. |
| 47 | LIDL_UdatRqImmss                                                                 | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV_Rr, TCV_Fn,<br>TSPX_SDCCH4SubDef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(0))) |                         |
| 48 | L?DL_EstInCmsRq                                                                  | CMSerReq(CMServiceReq_01)                                                                                                             |                         |
| 49 | ACTIVATE(OtherEventsFail)                                                        |                                                                                                                                       | Restore Normal default  |
| 50 | +Authentication(TCV_ch,<br>TSPX_CKSNDf, TSPX_RANDDef)                            |                                                                                                                                       |                         |

|    |                                                                                          |                                          |  |
|----|------------------------------------------------------------------------------------------|------------------------------------------|--|
| 51 | +Ciphering_on(TCV_ch)                                                                    |                                          |  |
| 52 | +RcvSetupOrEsetup(TCV_Setup_mo,<br>TCV_Esetup, TCV_Ecall)                                |                                          |  |
| 53 | LIDL_DatRqCallProc                                                                       | CallProc(TCV_ch,<br>TCV_CallProc)        |  |
| 54 | LIDL_DatRqAlert                                                                          | AlertSnd(TCV_ch,<br>Alerting_01(TCV_TI)) |  |
| 55 | +AssCmdGen(TCV_cellid,<br>TCV_ChRate, TSPX_TmSltDef,<br>TSPX_TscDef,<br>TSPX_TCHHSubDef) |                                          |  |
| 56 | +AssCh_complete(TCV_ch,<br>TCV_chTch, TCV_AssCmd)                                        |                                          |  |

**Detailed Comments:**

1. To setup physical channels for BCCH, CCCH, SDCCH4 and traffic channels.
2. To verify non-supported AOCC information carried by CONNECT message in the case of MO call state U4.
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 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                              |     |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_11_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/General/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                              |     |          |
| <b>Purpose:</b>             |       | 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: <ul style="list-style-type: none"> <li>- MS fails to put the first call on hold</li> <li>- MS fails to place the second call.</li> <li>- Optionally provides some indication to the user of an error.</li> </ul>                                                                                                                                             |                              |     |          |
| <b>Default:</b>             |       | OtherEvents_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                              |     |          |
| <b>Comments:</b>            |       | other irrelevant messages will be discarded by the default tree.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                         | V   | 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_NECl_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, 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)                                                                                                                                                                                                                                                                                                                                                                              |                              |     | 1.       |
| 5                           |       | +Est_MO_Call(TimingAdv(0), TCV_ChRate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |     | 2.       |
| 6                           |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |     | 3.       |
| 7                           |       | START T_dly(3000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                              |     |          |
| 8                           |       | L?DL_DatInHold CANCEL T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | HoldRcv(Holdpdu_01(TCV_TIO)) | (F) | 4.       |
| 9                           |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                              |     |          |
| 10                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                              | (P) | 5.       |
| 11                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                              |     |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To setup physical channels for BCCH, CCCH, SDCCH4 and traffic channels.</li> <li>2. To bring the MS into U10 state of mobile originating call.</li> <li>3. To enter hold MMI command.</li> <li>4. The MS sends out HOLD message, fail.</li> <li>5. Within 3 seconds there is no HOLD message, pass.</li> </ol>                                                                                                                                                                                                              |                              |     |          |

| Test Case Dynamic Behaviour                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                              |     |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----|----------|
| <b>Test Case Name:</b> TC_11_5                                                                                                                                                                                                                                                                                                                                                                                                                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                              |     |          |
| <b>Group:</b> GSM_L3_MS_v4180/General/                                                                                                                                                                                                                                                                                                                                                                                                                    |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                              |     |          |
| <b>Purpose:</b> 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:<br><ul style="list-style-type: none"> <li>- Fails to combine the three parties in a MultiParty call.</li> <li>- Optionally provides some indication to the user of an error.</li> </ul> |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                              |     |          |
| <b>Default:</b> OtherEvents_01                                                                                                                                                                                                                                                                                                                                                                                                                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                              |     |          |
| <b>Comments:</b> other irrelevant messages will be discarded by the default tree.                                                                                                                                                                                                                                                                                                                                                                         |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                              |     |          |
| Nr                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CRef                                                                         | V   | Comments |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                              |     |          |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       | +BasicServiceMO(TSPX_MOBscSvcD,<br>TSPX_MOChRateD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                              |     |          |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                                                              |     |          |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       | +CCConfigTCH(TSPX_TCHHSubDef, C_Ass,<br>TSPX_TmSlitDef, TSPX_TscDef, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>TCV_ChMod.mode, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                              |     | 1.       |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       | +Est_MO_Call(TimingAdv(0), TCV_ChRate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                              |     | 2.       |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                              |     | 7.       |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       | L?DL_DatInHold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | HoldRcv(Holdpdu_01(<br>TCV_TI0))                                             |     |          |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       | LIDL_DatRqHoldAck                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | HoldAckSnd(TCV_ch<br>Tch,<br>HoldAckpdu_01(TCV<br>_TI))                      |     |          |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       | L?DL_DatInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CMSerDatReq(CMSer<br>viceReq_01)                                             |     |          |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | LIDL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CMSerAcp(TCV_chTc<br>h, CMSerAcp_01)                                         |     |          |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +SetupRcvMo2(SetupInd_01)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                              |     |          |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                              |     |          |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | <b>continue</b><br>LIDL_DatRqCallProc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CallProc(TCV_chTch,<br>TCV_CallProc)                                         |     |          |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | LIDL_DatRqAlert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | AlertSnd(TCV_chTch,<br>Alerting_01(TCV_TI2<br>)                              |     |          |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | LIDL_DatRqConn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ConnSnd(TCV_chTch<br>,<br>Connect_02(TCV_TI2<br>)                            |     |          |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | L?DL_DatInConnAck                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ConnAckRcv(Connect<br>Ack_02(TCV_TI1))                                       |     | 3.       |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | (TCV_Null := OO_MptyCall())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                              |     | 4.       |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | START T_dly(3000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                              |     |          |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | L?DL_DatInFac CANCEL T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | FacilityRcv(FacilityPd<br>u_26(TCV_TI0,<br>facilityIercv(<br>BldMptySS_01))) | (F) | 5.       |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                              |     |          |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | L?DL_DatInFac CANCEL T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | FacilityRcv(FacilityPd<br>u_26(TCV_TI1,                                      | (F) | 5.       |

|                           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                   |     |    |
|---------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----|----|
| 22                        |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | facilityIErcv(<br>BldMptySS_01))) |     |    |
| 23                        |  | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                   | (P) | 6. |
| 24                        |  | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                   |     |    |
|                           |  | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                   |     |    |
| <b>Detailed Comments:</b> |  | <ol style="list-style-type: none"> <li>1. To setup physical channels for BCCH, CCCH, SDCCH4 and traffic channels.</li> <li>2. To bring the MS into U10 state of mobile originating call.</li> <li>3. The first call is on hold and second call is in active state.</li> <li>4. To enter MultiParty MMI command.</li> <li>5. The MS sends out FACILITY message, fail.</li> <li>6. Within 3 seconds there is no FACILITY message, pass.</li> <li>7. To initiate the second call.</li> </ol> |                                   |     |    |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                              |     |          |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_11_6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                              |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/General/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                              |     |          |
| <b>Purpose:</b>             |       | <p>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.</p> <p>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.</p>                                                                                                                                                                                                                                                               |                                              |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                              |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CRef                                         | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                              |     |          |
| 2                           |       | +BasicServiceMO(TSPX_MOBscSvcE,<br>TSPX_MOChRateE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                              |     |          |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                              |     | 1.       |
| 4                           |       | (TCV_Null := OO_SIM3Ins())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                              |     | 2.       |
| 5                           |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                              |     | 3.       |
| 6                           |       | START T_dly(3000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                              |     |          |
| 7                           |       | L?DL_RacInChRq CANCEL T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ChReq(ChRequest_0<br>2)                      | (F) |          |
| 8                           |       | START T_dly(C_T_Wait)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                              |     | 4.       |
| 9                           |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                              |     |          |
| 10                          |       | +continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                              |     |          |
| 11                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                              | (P) |          |
| 12                          |       | +continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                              |     |          |
| 13                          |       | <b>continue</b><br>L!DL_UdatRqPg1Rq (DL_UdatRqPg1Rq.pgg :=<br>TCV_Pgg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | PgReq1(TCV_PgCh,<br>TCV_Pgg,<br>PgReqTp1_01) |     | 5.       |
| 14                          |       | START T_dly(3000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                              |     |          |
| 15                          |       | L?DL_RacInChRq CANCEL T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ChReq(ChRequest_0<br>2)                      | (F) |          |
| 16                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                              | (P) | 6.       |
| <b>Detailed Comments:</b>   |       | <p>1. To setup a physical channel as BCCH, CCCH and SDCCH4.</p> <p>2. To insert the SIM with FDN allocated and activated, the power on the MS.</p> <p>3. To attempt an outgoing CM connection.</p> <p>4. To wait the MS back to idle.</p> <p>5. To page the MS.</p> <p>6. No CHANNEL REQUEST, pass</p>                                                                                                                                                                                                                                                                                                             |                                              |     |          |

**Test Group InitialTest**

| <b>Test Case Dynamic Behaviour</b> |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                     |     |          |
|------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>             |       | TC_26_2_1_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                     |     |          |
| <b>Group:</b>                      |       | GSM_L3_MS_v4180/InitialTest/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                     |     |          |
| <b>Purpose:</b>                    |       | 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.<br><br>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.                                                                                         |                                                     |     |          |
| <b>Default:</b>                    |       | OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                     |     |          |
| <b>Comments:</b>                   |       | The default tree OtherEventsFail_01 throws away any possible retransmitted channel request messages.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                     |     |          |
| Nr                                 | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CRef                                                | V   | Comments |
| 1                                  |       | START T_guard(1800)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                     |     |          |
| 2                                  |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immss, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, TSPX_CcchConf1, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2) |                                                     |     |          |
| 3                                  |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                     |     |          |
| 4                                  |       | <b>localtree</b><br>(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                                  |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     | (F) | 2.       |
| 8                                  |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                     | (P) |          |
| 9                                  |       | <b>localtree1</b><br>L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)              |     |          |
| 10                                 |       | L?DL_RaInChRq(TCV_Rr := DL_RaInChRq, msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)<br>START T_dly(C_T_Wait)                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ChReq(ChRequest_1 7)                                |     |          |
| 11                                 |       | (TCV_Fn1 := OM_ReturnFn(TCV_PgCh), TCV_Fk := OC_RachSlots(TCV_Fn1, TCV_Fn, TCV_Upd, 0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                     |     | 4.       |
| 12                                 |       | [TCV_Fk < -9990]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                     | (F) | 7.       |
| 13                                 |       | (TCV_Cnt := 200)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                     |     |          |
| 14                                 |       | CANCEL T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                     |     |          |
| 15                                 |       | [TCV_Fk >= 0]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |     |          |
| 16                                 |       | (TCV_Res := OC_SaveAndProc1(TCV_Fk, C_SAVE, TCV_Cnt, TCV_Upd))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                     |     | 5.       |
| 17                                 |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     | (F) | 6.       |
| 18                                 |       | (TCV_Cnt := 200)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                     |     |          |
| 19                                 |       | CANCEL T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                     |     |          |
| 20                                 |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                     | (P) |          |
| 21                                 |       | L!DL_UdatRqImmssRej (TCV_Cnt := TCV_Cnt+1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ImmAssRej(TCV_agc h, ImmAsgnRej_01(TCV_Rr, TCV_Fn)) |     |          |
| 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 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_2_1_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/InitialTest/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
| <b>Purpose:</b>             |       | <p>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:</p> <ul style="list-style-type: none"> <li>- the CCCH is combined or not combined with SDCCHs;</li> <li>- the maximum number of retransmissions is equal to one of the following values: 1, 2, 4, 7, according to the value of TSPX_MaxRetrans.</li> <li>- 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.</li> </ul> <p>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.</p> |      |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CRef | V | 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]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |   |          |
|                             |       | <b>ltree_main</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 5                           |       | [TCV_Cnt1 = 0]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| 6                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, TSPX_Txint, TSPX_MaxRetrans, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_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_Ccd0H := CntrlChDscrp(C_ATT_0, C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_0), TCV_Upd := C_NotCombined)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
| 12                          |       | +Varinit_fix(C_CellA, C_LAC_1, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
| 13                          |       | +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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   |          |
| 14                          |       | +SysInfoSending_nfh(C_SCH_A, C_BCCH_A_1, TSPX_Txint, TSPX_MaxRetrans, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_NCCP_2)                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |          |
| 15                          |       | (TCV_Ccd0A := TCV_Ccd0H,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   |          |

|                           |                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |    |
|---------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 16                        | TCV_sysinfo5 := TCV_sysinfo5,<br>TCV_sysinfo6 := TCV_sysinfo6                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |    |
| 17                        | START T_dly(C_T_Wait)                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |    |
| 18                        | ?TIMEOUT T_dly<br>(TCV_S := OC_LookupS(TSPX_Txint,<br>TCV_Upd))                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     | 2. |
| 19                        | +localtree(TCV_Upd)                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |    |
| 20                        | (TCV_Cnt1 := TCV_Cnt1 + 1)                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |    |
| 21                        | <b>localtree(mode: BOOLEAN)</b><br>(TCV_kcnt := 0, TCV_M := 0)                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |    |
| 22                        | REPEAT localtree1(mode) UNTIL [TCV_kcnt<br>=TCV_K]                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |    |
| 23                        | (TCV_Res := OC_InRang(TSPX_Txint,<br>TSPX_MaxRetrans, TCV_M))                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |    |
| 24                        | [TCV_Res]                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (P) |    |
| 25                        | [NOT TCV_Res]                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (F) |    |
| 26                        | <b>localtree1(mode: BOOLEAN)</b><br>L!DL_UdatRqPg1Rq                                                      | PgReq1(TCV_PgCh,<br>TCV_Pgg,<br>PgReqTp1_01)                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     | 3. |
| 27                        | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn1 := DL_RaInChRq.fn)                         | ChReq(ChRequest_1<br>7)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |    |
| 28                        | (TCV_Cnt := 0)                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |    |
| 29                        | REPEAT localtree2(mode) UNTIL [TCV_Cnt =<br>TSPX_MaxRetrans]                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |    |
| 30                        | +localtree3                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |    |
| 31                        | ?TIMEOUT T_dly                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |    |
| 32                        | (TCV_kcnt := TCV_kcnt + 1)                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |    |
| 33                        | <b>localtree2(mode: BOOLEAN)</b><br>CANCEL T_dly                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |    |
| 34                        | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)<br>START T_dly(C_T_Wait) | ChReq(ChRequest_1<br>7)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |    |
| 35                        | (TCV_Fk := OC_RachSlots(TCV_Fn1, TCV_Fn,<br>mode, 1), TCV_Fn1 := TCV_Fn, TCV_Cnt :=<br>TCV_Cnt+1)         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     | 4. |
| 36                        | [(TCV_Fk >= TCV_S) AND (TCV_Fk <=<br>(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                        | [(TCV_Fk < TCV_S) OR (TCV_Fk<br>>(TCV_S+TSPX_Txint - 1))]                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (F) | 6. |
| 41                        | <b>localtree3</b><br>[TCV_kcnt = TCV_K]                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (P) |    |
| 42                        | [TCV_kcnt < TCV_K]                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |    |
| 43                        | L!DL_UdatRqImmRej                                                                                         | ImmAssRej(TCV_agc<br>h,<br>ImmAsgnRej_02(TCV<br>_Rr, TCV_Fn))                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |    |
| <b>Detailed Comments:</b> |                                                                                                           | <ol style="list-style-type: none"> <li>1. To setup the time-out value for guard timer, each excuton of one sequence= 10s.</li> <li>2. To generate the required parameters.</li> <li>3. To start the measuring.</li> <li>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.</li> <li>5. The f(i, k) is in the set {S, S+1, ...S+T-1}.</li> <li>6. The f(i, k) is not in the set {S, S+1, ...S+T-1}, fail.</li> </ol> |     |    |



| <b>Test Case Dynamic Behaviour</b> |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                        |   |          |
|------------------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---|----------|
| <b>Test Case Name:</b>             |       | TC_26_2_1_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                        |   |          |
| <b>Group:</b>                      |       | GSM_L3_MS_v4180/InitialTest/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                        |   |          |
| <b>Purpose:</b>                    |       | 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.                                                                                                                                                                                                                                                                                                                                 |                                        |   |          |
| <b>Default:</b>                    |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                        |   |          |
| Nr                                 | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CRef                                   | V | 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_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                                  |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                        |   |          |
|                                    |       | <b>localtree</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                        |   |          |
| 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                                  |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | P |          |
| 8                                  |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        | F | 2.       |
|                                    |       | <b>localtree1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |   |          |
| 9                                  |       | L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01) |   |          |
| 10                                 |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ChReq(ChRequest_1 7)                   |   |          |
| 11                                 |       | (TCV_Null := OC_SaveAndProc3(TCV_Rr, C_SAVE, TCV_Cnt))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                        |   | 3.       |
| 12                                 |       | L?DL_RaInChRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ChReq(ChRequest_1 7)                   |   | 4.       |
| 13                                 |       | START T_dly(C_T_Wait)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                        |   | 5.       |
| 14                                 |       | (TCV_Cnt := TCV_Cnt+1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                        |   |          |
| 15                                 |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                        |   |          |
| <b>Detailed Comments:</b>          |       | <ol style="list-style-type: none"> <li>1. To analyse the distribution of the random references.</li> <li>2. The random references are not randomly distributed.</li> <li>3. To record the random reference.</li> <li>4. The MS retransmits the channel request once more.</li> <li>5. To wait long enough to guarantee that the MS is in service.</li> </ol>                                                                                                                                                                                                           |                                        |   |          |

| Test Case Dynamic Behaviour                                                                                                                                                                                                     |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Case Name:</b> TC_26_2_2                                                                                                                                                                                                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| <b>Group:</b> GSM_L3_MS_v4180/InitialTest/                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| <b>Purpose:</b>                                                                                                                                                                                                                 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| 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.                                                                                                                                       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| <b>Default:</b> OtherEventsFail                                                                                                                                                                                                 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| Nr                                                                                                                                                                                                                              | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef | V | 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                                                                                                                                                                                                                               | body  | +procedure1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |   |          |
| 4                                                                                                                                                                                                                               |       | +procedure2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |   |          |
| 5                                                                                                                                                                                                                               |       | +SetATT(C_TxInt_5, C_Max_1, C_ATT_1, C_NECI_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1)                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   | 1.       |
| 6                                                                                                                                                                                                                               |       | +procedures3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |          |
| 7                                                                                                                                                                                                                               |       | +procedures4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |          |
|                                                                                                                                                                                                                                 |       | <b>procedure1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
| 8                                                                                                                                                                                                                               |       | +ImsiDetachNoReaction(5000, C_SIMIn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   | 2.       |
| 9                                                                                                                                                                                                                               |       | +ImsiAttachNoReaction(30000, C_SIMIn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   | 4.       |
|                                                                                                                                                                                                                                 |       | <b>procedure2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
| 10                                                                                                                                                                                                                              |       | [TSPC_SIMRmv]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   |          |
| 11                                                                                                                                                                                                                              |       | (TCV_Null :=OO_SIMRmv())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   | 6.       |
| 12                                                                                                                                                                                                                              |       | +NoReaction( 5000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   | 3.       |
| 13                                                                                                                                                                                                                              |       | (TCV_Null := OO_SIMIns())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   | 7.       |
| 14                                                                                                                                                                                                                              |       | +NoReaction(30000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   | 5.       |
| 15                                                                                                                                                                                                                              |       | [NOT TSPC_SIMRmv]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
|                                                                                                                                                                                                                                 |       | <b>procedures3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| 16                                                                                                                                                                                                                              |       | +MM_PwrOrSimOff(C_SIMIn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| 17                                                                                                                                                                                                                              |       | [(TSPC_DetachOnPwrDn)<br>OR(TSPC_SwitchOnOff)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
| 18                                                                                                                                                                                                                              |       | +imsidetach                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |   |          |
| 19                                                                                                                                                                                                                              |       | +MM_PwrOrSimOn(C_SIMIn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   |          |
| 20                                                                                                                                                                                                                              |       | +locup(MiTmsi_02iei)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
| 21                                                                                                                                                                                                                              |       | [(NOT TSPC_DetachOnPwrDn) AND(NOT<br>TSPC_SwitchOnOff)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   |          |
| 22                                                                                                                                                                                                                              |       | +MM_PwrOrSimOn(C_SIMIn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   |          |
| 23                                                                                                                                                                                                                              |       | +locup(MiTmsi_02iei)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
|                                                                                                                                                                                                                                 |       | <b>procedures4</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| 24                                                                                                                                                                                                                              |       | [(TSPC_SIMRmv) AND(TSPC_DetachOnSIMRmv)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| 25                                                                                                                                                                                                                              |       | (TCV_Null :=OO_SIMRmv())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| 26                                                                                                                                                                                                                              |       | +imsidetach                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |   |          |
| 27                                                                                                                                                                                                                              |       | (TCV_Null := OO_SIMIns())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   |          |
| 28                                                                                                                                                                                                                              |       | +locup(MiTmsi_01iei)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
| 29                                                                                                                                                                                                                              |       | [(NOT TSPC_SIMRmv)<br>AND(TSPC_DetachOnPwrDn)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |

|    |                                                                                                                                                                        |                                                                                                                                               |  |                         |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------|
| 30 | +MM_PwrOrSimOff(C_SIMIn)                                                                                                                                               |                                                                                                                                               |  |                         |
| 31 | +imsidetach                                                                                                                                                            |                                                                                                                                               |  |                         |
| 32 | +MM_PwrOrSimOn(C_SIMIn)                                                                                                                                                |                                                                                                                                               |  |                         |
| 33 | +locup(MiTmsi_01iei)                                                                                                                                                   |                                                                                                                                               |  |                         |
| 34 | (((NOT TSPC_SIMRmv) AND(NOT<br>TSPC_DetachOnPwrDn)) OR((NOT<br>TSPC_DetachOnSIMRmv) AND(TSPC_SIMRmv))<br>OR((NOT TSPC_DetachOnSIMRmv) AND(NOT<br>TSPC_DetachOnPwrDn))) |                                                                                                                                               |  |                         |
| 35 | +MM_PwrOrSimOff(C_SIMIn)                                                                                                                                               |                                                                                                                                               |  |                         |
| 36 | +MM_PwrOrSimOn(C_SIMIn)                                                                                                                                                |                                                                                                                                               |  |                         |
| 37 | +locup(MiTmsi_01iei)                                                                                                                                                   |                                                                                                                                               |  |                         |
|    | <b>activitychk(t: INTEGER)</b>                                                                                                                                         |                                                                                                                                               |  |                         |
| 38 | START T_dly(t)                                                                                                                                                         |                                                                                                                                               |  |                         |
| 39 | ?TIMEOUT T_dly                                                                                                                                                         |                                                                                                                                               |  | (P)                     |
|    | <b>locup(newmi:MI)</b>                                                                                                                                                 |                                                                                                                                               |  |                         |
| 40 | +channelrequest                                                                                                                                                        |                                                                                                                                               |  |                         |
| 41 | L?DL_EstInLupRq                                                                                                                                                        | LocUp(TCV_ch,<br>LocUpdtReq_01(C_im<br>si_attach))                                                                                            |  | 9.                      |
| 42 | ACTIVATE(OtherEventsFail)                                                                                                                                              |                                                                                                                                               |  | Restore Normal default  |
| 43 | LIDL_DatRqLupAcp                                                                                                                                                       | LocAcp(TCV_ch,<br>LocUpdtAcp_01(new<br>mi, C_MCC_1,<br>C_PLMN_1,<br>TCV_lac))                                                                 |  | 10.                     |
| 44 | L?DL_DatInTmsireCom                                                                                                                                                    | TmsiReallocCmp(TC<br>V_ch)                                                                                                                    |  | (P)                     |
| 45 | +channelrelease                                                                                                                                                        |                                                                                                                                               |  |                         |
|    | <b>imsidetach</b>                                                                                                                                                      |                                                                                                                                               |  |                         |
| 46 | +channelrequest                                                                                                                                                        |                                                                                                                                               |  |                         |
| 47 | L?DL_EstInImsidIn                                                                                                                                                      | ImsiDet(ImsiDetach_0<br>1)                                                                                                                    |  | (P) 8.                  |
| 48 | ACTIVATE(OtherEventsFail)                                                                                                                                              |                                                                                                                                               |  | Restore Normal default  |
| 49 | +channelrelease                                                                                                                                                        |                                                                                                                                               |  |                         |
|    | <b>channelrequest</b>                                                                                                                                                  |                                                                                                                                               |  |                         |
| 50 | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                       | ChReq(ChRequest_0<br>2)                                                                                                                       |  |                         |
| 51 | ACTIVATE(OtherEventsFail_02)                                                                                                                                           |                                                                                                                                               |  | To match ChReq retrans. |
| 52 | LIDL_UdatRqImm                                                                                                                                                         | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(0))) |  |                         |
|    | <b>channelrelease</b>                                                                                                                                                  |                                                                                                                                               |  |                         |
| 53 | LIDL_DatRqChRel                                                                                                                                                        | ChRel(TCV_ch,<br>ChRelease_01)                                                                                                                |  |                         |
| 54 | L?DL_RelIn                                                                                                                                                             | DLRelInd_01                                                                                                                                   |  |                         |

**Detailed Comments:**

1. To set ATT = 1 for procedures3 and procedures4.
2. To switch off or power down the MS.
3. The test system checks for 5 seconds that MS shall not initiate the IMSI detach procedure.
4. To switch on or power up the MS.
5. The test system checks for 30 seconds that MS shall not initiate the IMSI attach procedure.
6. If possible to remove the SIM.
7. To insert the SIM to the MS under test.
8. The MS initiate IMSI detach procedure.
9. The location updating type shall be IMSI attach
10. To allocate a new TMSI.

| Test Case Dynamic Behaviour |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                        |     |                         |
|-----------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| <b>Test Case Name:</b>      |                  | TC_26_2_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                        |     |                         |
| <b>Group:</b>               |                  | GSM_L3_MS_v4180/InitialTest/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                        |     |                         |
| <b>Purpose:</b>             |                  | 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.                                                                                                                                                                                                                                                                                                                     |                                                                                                                        |     |                         |
| <b>Default:</b>             |                  | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                        |     |                         |
| Nr                          | Label            | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CRef                                                                                                                   | V   | Comments                |
| 1                           |                  | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                        |     |                         |
| 2                           |                  | +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_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, 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             | LIDL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)                                                                                 |     | TMSI paging ...         |
| 4                           |                  | L?DL_RaclnChRq (TCV_Rr := DL_RaclnChRq.msg.ecau_rfq, TCV_Fn := DL_RaclnChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ChReq(ChRequest_1 7)                                                                                                   |     |                         |
| 5                           |                  | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                        |     | To match ChReq retrans. |
| 6                           |                  | LIDL_UdatRqImm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 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_DatRqldRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | IDReq(TCV_ch, IDRequest_01('0001' B))                                                                                  |     |                         |
| 10                          |                  | L?DL_DatInIdRes (TCV_Mt := DL_DatInIdRes.msg.mt)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | IDRes(IDResponse_0 1)                                                                                                  |     |                         |
| 11                          |                  | +check1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                        | 1.  |                         |
| 12                          |                  | (TCV_Cnt := 0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                        |     |                         |
| 13                          |                  | REPEAT localtree<br>UNTIL [TCV_Cnt = 5]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                        |     |                         |
| 14                          |                  | +PostLinkRelEnd(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                        | 3.  |                         |
| 15                          | <b>localtree</b> | LIDL_DatRqldRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | IDReq(TCV_ch, IDRequest_01('0001' B))                                                                                  |     |                         |
| 16                          |                  | L?DL_DatInIdRes (TCV_Mt := DL_DatInIdRes.msg.mt)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | IDRes(IDResponse_0 1)                                                                                                  |     |                         |
| 17                          |                  | +check2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                        |     |                         |
| 18                          |                  | LIDL_DatRqldRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | IDReq(TCV_ch, IDRequest_01('0001' B))                                                                                  |     |                         |
| 19                          |                  | L?DL_DatInIdRes (TCV_Mt := DL_DatInIdRes.msg.mt)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | IDRes(IDResponse_0 1)                                                                                                  |     |                         |
| 20                          |                  | [OC_Bit7(TCV_Mt) = '0'B]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                        | (P) | 1.                      |
| 21                          |                  | (TCV_Cnt := TCV_Cnt+1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                        |     |                         |
| 22                          |                  | [OC_Bit7(TCV_Mt) = '1'B]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                        | (F) |                         |
| 23                          |                  | (TCV_Cnt := TCV_Cnt+1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                        |     |                         |
| 24                          | <b>check1</b>    | [OC_Bit7(TCV_Mt) = '1'B]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                        | (F) |                         |

|                                                                                                                                 |                          |  |     |    |
|---------------------------------------------------------------------------------------------------------------------------------|--------------------------|--|-----|----|
| 25                                                                                                                              | [OC_Bit7(TCV_Mt) = '0'B] |  | (P) |    |
|                                                                                                                                 | <b>check2</b>            |  |     |    |
| 26                                                                                                                              | [OC_Bit7(TCV_Mt) = '0'B] |  | (F) |    |
| 27                                                                                                                              | [OC_Bit7(TCV_Mt) = '1'B] |  | (P) | 2. |
| <b>Detailed Comments:</b>                                                                                                       |                          |  |     |    |
| 1. The N(SD) shall be 0.<br>2. The N(SD) shall be 1.<br>3. The test system waits the disconnection of the main signalling link. |                          |  |     |    |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                    |     |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_2_4_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                    |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/InitialTest/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    |     |          |
| <b>Purpose:</b>             |       | 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:<br>If the MS supports a service on a traffic channel:<br>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.                                                                           |                                                    |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                    |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                               | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                    |     |          |
| 2                           |       | +local_HalfRateSvcOtherwiseFullRate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                    |     |          |
| 3                           |       | +BasicServiceMO(TCV_Service1, TCV_ChRate1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                    |     |          |
| 4                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECl_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, 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) |                                                    |     |          |
| 5                           |       | +CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                             |                                                    |     | 1.       |
| 6                           | body  | +Est_MO_Call(TimingAdv(0), TCV_ChRate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                    |     |          |
| 7                           |       | (TCV_Null := OM_Deactivate(TCV_chTch, TCV_sacchTch), TCV_Null := OM_CphMd(TCV_chTch, CphMod_02, TCV_CphKey))                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    |     | 2.       |
| 8                           |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                    |     |          |
| 9                           |       | <b>localtree</b><br>(TCV_Cnt :=0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                    |     |          |
| 10                          |       | REPEAT localtree1 UNTIL [TCV_Cnt=7]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                    |     |          |
| 11                          |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ChReq(ChRequest_1 0)                               | (P) | 3.       |
| 12                          |       | L!DL_UdatRqImmassRej                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rr, TCV_Fn)) |     |          |
| 13                          |       | <b>localtree1</b><br>L?DL_RaInChRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ChReq(ChRequest_1 0)                               |     | 3.       |
| 14                          |       | (TCV_Cnt := TCV_Cnt +1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                    |     |          |
| 15                          |       | <b>local_HalfRateSvcOtherwiseFullRate</b><br>[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]                                                            |  |  | otherwise |
| 36                                                                                                                                                                                                                                   | (TCV_Service1 := TSPX_MOBscSvcA,<br>TCV_ChRate1 := TSPX_MOChRateA) |  |  |           |
| <b>Detailed Comments:</b>                                                                                                                                                                                                            |                                                                    |  |  |           |
| 1. To set up a call. The generic call setup procedure is ussd.<br>2. To stop transmission on the channel SACCH.<br>3. The establishment cause shall be '110'B, otherwise the test case fails in the default tree<br>OtherEventsFail. |                                                                    |  |  |           |

| Test Case Dynamic Behaviour                                                                                                                                                                                                                                                                                                                                                                                                       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                    |     |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-----|----------|
| <b>Test Case Name:</b> TC_26_2_4_2                                                                                                                                                                                                                                                                                                                                                                                                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                    |     |          |
| <b>Group:</b> GSM_L3_MS_v4180/InitialTest/                                                                                                                                                                                                                                                                                                                                                                                        |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                    |     |          |
| <b>Purpose:</b> 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:<br>If the MS supports a service on half rate channel:<br>when the NECI bit is set to 1 and call re-establishment is attempted and the call was established on TCH/H. |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                    |     |          |
| <b>Default:</b> OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                    |     |          |
| Nr                                                                                                                                                                                                                                                                                                                                                                                                                                | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                               | V   | 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_CKSNDf, 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                    |     |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | <b>ltree_body</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                    |     |          |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                 |       | +Est_MO_Call(TimingAdv(0), C_Half)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                    |     | 2.       |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                 |       | (TCV_Null := OM_Deactivate(TCV_chTch, TCV_sacchTch), TCV_Null := OM_CphMd(TCV_chTch, CphMod_02, TCV_CphKey))                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    |     | 3.       |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                 |       | (TCV_Cnt :=0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                    |     |          |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                |       | REPEAT localtree UNTIL [TCV_Cnt=7]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                    |     |          |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq, msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ChReq(ChRequest_1)                                 | (P) | 4.       |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                |       | !DL_UdatRqImmassRej                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rr, TCV_Fn)) |     |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | <b>localtree</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                    |     |          |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                |       | L?DL_RaInChRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ChReq(ChRequest_1)                                 |     | 4.       |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                |       | (TCV_Cnt := TCV_Cnt +1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                    |     |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | <b>local_PickupHalfRateSvc</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                    |     |          |
| 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.<br>2. To set up a call on the TCH/H by generic call setup procedure.<br>3. To stop transmission on the SACCH.<br>4. The establishment cause shall be '011010'B, otherwise the test case fails in the default tree. |                                  |  |   |                      |

| Test Case Dynamic Behaviour                                                                                                                                                                                                                                                                                                                                                                                                        |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                               |     |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-----|----------|
| <b>Test Case Name:</b> TC_26_2_4_3                                                                                                                                                                                                                                                                                                                                                                                                 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                               |     |          |
| <b>Group:</b> GSM_L3_MS_v4180/InitialTest/                                                                                                                                                                                                                                                                                                                                                                                         |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                               |     |          |
| <b>Purpose:</b> 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:<br>If the MS supports speech:<br>1. when the NECI bit is set to 0 and a speech call is attempted.<br>2. when the NECI bit is set to 1 and a speech call is attempted. |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                               |     |          |
| <b>Default:</b> OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                    |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                               |     |          |
| Nr                                                                                                                                                                                                                                                                                                                                                                                                                                 | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                                          | V   | Comments |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                               |     |          |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | +BasicServiceMO(C_Telephony,<br>TSPX_Telephony_Rate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                               |     |          |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDDef, TSPX_RANDDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                                               |     | 1.       |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                  | body  | +neci0Behaviour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                               |     |          |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | +SetNECI(C_ATT_0, C_BABR_0,<br>C_cch_1Comb, C_BPM_3, C_T3212_0,<br>C_MCC_1, C_PLMN_1, C_LAC_1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                               |     | 2.       |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | +neci1Behaviour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                               |     |          |
| <b>neci0Behaviour</b>                                                                                                                                                                                                                                                                                                                                                                                                              |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                               |     |          |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                               |     | 3.       |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | (TCV_Cnt :=0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                               |     |          |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | REPEAT localtree1 UNTIL [TCV_Cnt=7]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                               |     |          |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                 |       | L?DL_RaInChRq (TCV_Rr :=<br>DL_RaInChRq.msg.ecau_rrf, TCV_Fn :=<br>DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ChReq(ChRequest_0<br>4)                                       | (P) | 4.       |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                 |       | L!DL_UdatRqImmassRej                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ImmAssRej(TCV_agc<br>h,<br>ImmAsgnRej_01(TCV<br>_Rr, TCV_Fn)) |     |          |
| <b>neci1Behaviour</b>                                                                                                                                                                                                                                                                                                                                                                                                              |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                               |     |          |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                 |       | START T_dly(30000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                               |     | 5.       |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                 |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                               |     |          |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                 |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                               |     | 3.       |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                 |       | (TCV_Cnt := 0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                               |     |          |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                 |       | REPEAT localtree2 UNTIL [TCV_Cnt=7]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                               |     |          |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                 |       | [NOT TSPC_DualRate]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                               |     |          |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                 |       | L?DL_RaInChRq (TCV_Rr :=<br>DL_RaInChRq.msg.ecau_rrf, TCV_Fn<br>:= DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ChReq(ChRequest_0<br>4)                                       | (P) | 6.       |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                 |       | L!DL_UdatRqImmassRej                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ImmAssRej(TCV_agc<br>h,<br>ImmAsgnRej_01(TCV<br>_Rr, TCV_Fn)) |     |          |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                 |       | [TSPC_DualRate]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                               |     |          |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                 |       | L?DL_RaInChRq (TCV_Rr :=<br>DL_RaInChRq.msg.ecau_rrf, TCV_Fn<br>:= DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ChReq(ChRequest_0<br>5)                                       | (P) | 7.       |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                 |       | L!DL_UdatRqImmassRej                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ImmAssRej(TCV_agc<br>h,<br>ImmAsgnRej_01(TCV<br>_Rr, TCV_Fn)) |     |          |

|    |                                    |                         |    |
|----|------------------------------------|-------------------------|----|
| 23 | <b>localtree1</b><br>L?DL_RaInChRq | ChReq(ChRequest_0<br>4) | 4. |
| 24 | (TCV_Cnt := TCV_Cnt +1)            |                         |    |
|    | <b>localtree2</b>                  |                         |    |
| 25 | [TSPC_DualRate]                    |                         |    |
| 26 | L?DL_RaInChRq                      | ChReq(ChRequest_0<br>5) | 7. |
| 27 | (TCV_Cnt := TCV_Cnt +1)            |                         |    |
| 28 | [NOT TSPC_DualRate]                |                         |    |
| 29 | L?DL_RaInChRq                      | ChReq(ChRequest_0<br>4) | 6. |
| 30 | (TCV_Cnt := TCV_Cnt +1)            |                         |    |

**Detailed Comments:**

1. The Max\_retrans = 7.
2. To set NECl = 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                    |     |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-----|----------|
| <b>Test Case Name:</b> TC_26_2_4_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                    |     |          |
| <b>Group:</b> GSM_L3_MS_v4180/InitialTest/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                    |     |          |
| <b>Purpose:</b> 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:<br>If the MS supports a data service:<br>1. when the NECI bit is set to 0 and a data call is attempted.<br>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). |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                    |     |          |
| <b>Default:</b> OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                    |     |          |
| Nr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                               | V   | Comments |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                    |     |          |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | +local_PickupDataService                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                    |     |          |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | +BasicServiceMO(TCV_Service1, TCV_ChRate1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                    |     |          |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2) |                                                    |     | 1.       |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | body  | +neci0Behaviour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                    |     |          |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | +SetNECI(C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                    |     | 2.       |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | START T_dly(30000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                    |     | 3.       |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                    |     |          |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | +neci1Behaviour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                    |     |          |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | <b>neci0Behaviour</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                    |     |          |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                    |     | 4.       |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | (TCV_Cnt := 0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                    |     |          |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | REPEAT localtree1 UNTIL [TCV_Cnt=7]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                    |     |          |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ChReq(ChRequest_04)                                | (P) | 5.       |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | LIDL_UdatRqImmRej                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rr, TCV_Fn)) |     |          |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | <b>neci1Behaviour</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                    |     |          |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                    |     | 6.       |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | (TCV_Cnt := 0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                    |     |          |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | +local_rcv_ChRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                    |     |          |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | LIDL_UdatRqImmRej                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rr, TCV_Fn)) |     |          |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | <b>local_rcv_ChRq</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                    |     |          |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | [TSPC_DualRate]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                    |     |          |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | REPEAT localtree2 UNTIL [TCV_Cnt=7]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                    |     |          |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ChReq(ChRequest_06)                                | (P) | 7.       |
| 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | [NOT TSPC_DualRate]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                    |     |          |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | REPEAT localtree1 UNTIL [TCV_Cnt=7]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                    |     |          |
| 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ChReq(ChRequest_0                                  | (P) | 5.       |

|                                                                                                                    |                                                                                                         |                         |                   |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------|-------------------|
|                                                                                                                    | msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                 | 4)                      |                   |
| 25                                                                                                                 | <b>localtree1</b><br>L?DL_RaInChRq                                                                      | ChReq(ChRequest_0<br>4) | 5.                |
| 26                                                                                                                 | (TCV_Cnt := TCV_Cnt +1)                                                                                 |                         |                   |
| 27                                                                                                                 | <b>localtree2</b><br>L?DL_RaInChRq                                                                      | ChReq(ChRequest_0<br>6) | 7.                |
| 28                                                                                                                 | (TCV_Cnt := TCV_Cnt +1)                                                                                 |                         |                   |
| 29                                                                                                                 | <b>local_PickupDataService</b><br>[(TSPX_MOBscSvcA <> C_Telephony)<br>AND(TSPX_MOBscSvcA <> C_EmgCall)] |                         |                   |
| 30                                                                                                                 | (TCV_Service1 := TSPX_MOBscSvcA,<br>TCV_ChRate1 := TSPX_MOChRateA)                                      |                         |                   |
| 31                                                                                                                 | [(TSPX_MOBscSvcB <> C_Telephony)<br>AND(TSPX_MOBscSvcB <> C_EmgCall)]                                   |                         |                   |
| 32                                                                                                                 | (TCV_Service1 := TSPX_MOBscSvcB,<br>TCV_ChRate1 := TSPX_MOChRateB)                                      |                         |                   |
| 33                                                                                                                 | [(TSPX_MOBscSvcC <> C_Telephony)<br>AND(TSPX_MOBscSvcC <> C_EmgCall)]                                   |                         |                   |
| 34                                                                                                                 | (TCV_Service1 := TSPX_MOBscSvcC,<br>TCV_ChRate1 := TSPX_MOChRateC)                                      |                         |                   |
| 35                                                                                                                 | [(TSPX_MOBscSvcD <> C_Telephony)<br>AND(TSPX_MOBscSvcD <> C_EmgCall)]                                   |                         |                   |
| 36                                                                                                                 | (TCV_Service1 := TSPX_MOBscSvcD,<br>TCV_ChRate1 := TSPX_MOChRateD)                                      |                         |                   |
| 37                                                                                                                 | [(TSPX_MOBscSvcE <> C_Telephony)<br>AND(TSPX_MOBscSvcE <> C_EmgCall)]                                   |                         |                   |
| 38                                                                                                                 | (TCV_Service1 := TSPX_MOBscSvcE,<br>TCV_ChRate1 := TSPX_MOChRateE)                                      |                         |                   |
| 39                                                                                                                 | [(TSPX_MOBscSvcF <> C_Telephony)<br>AND(TSPX_MOBscSvcF <> C_EmgCall)]                                   |                         |                   |
| 40                                                                                                                 | (TCV_Service1 := TSPX_MOBscSvcF,<br>TCV_ChRate1 := TSPX_MOChRateF)                                      |                         |                   |
| 41                                                                                                                 | [(TSPX_MOBscSvcG <> C_Telephony)<br>AND(TSPX_MOBscSvcG <> C_EmgCall)]                                   |                         |                   |
| 42                                                                                                                 | (TCV_Service1 := TSPX_MOBscSvcG,<br>TCV_ChRate1 := TSPX_MOChRateG)                                      |                         |                   |
| 43                                                                                                                 | [(TSPX_MOBscSvcH <> C_Telephony)<br>AND(TSPX_MOBscSvcH <> C_EmgCall)]                                   |                         |                   |
| 44                                                                                                                 | (TCV_Service1 := TSPX_MOBscSvcH,<br>TCV_ChRate1 := TSPX_MOChRateH)                                      |                         |                   |
| 45                                                                                                                 | [(TSPX_MOBscSvcI <> C_Telephony)<br>AND(TSPX_MOBscSvcI <> C_EmgCall)]                                   |                         |                   |
| 46                                                                                                                 | (TCV_Service1 := TSPX_MOBscSvcI,<br>TCV_ChRate1 := TSPX_MOChRateI)                                      |                         |                   |
| 47                                                                                                                 | [(TSPX_MOBscSvcJ <> C_Telephony)<br>AND(TSPX_MOBscSvcJ <> C_EmgCall)]                                   |                         |                   |
| 48                                                                                                                 | (TCV_Service1 := TSPX_MOBscSvcJ,<br>TCV_ChRate1 := TSPX_MOChRateJ)                                      |                         |                   |
| 49                                                                                                                 | [C_Yes]                                                                                                 |                         | I no data service |
| <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<br>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<br>OtherEventsFail. |                                                                                                         |                         |                   |
| 8. To attempt any data call if the MS does not support half rate data service.                                     |                                                                                                         |                         |                   |

### Test Case Dynamic Behaviour

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_26_2_4_5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Group:</b>          | GSM_L3_MS_v4180/InitialTest/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Purpose:</b>        | 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: <ol style="list-style-type: none"> <li>1. when the NECI bit is set to 0 and the MS is paged with the paging indication set to "any channel".</li> <li>2. when the NECI bit is set to 0 and the MS is paged with the paging indication set to "SDCCH".</li> <li>3. when the NECI bit is set to 0 and the MS is paged with the paging indication set to "TCH/F".</li> <li>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".</li> </ol> |
| <b>Default:</b>        | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CRef                                               | V   | 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_Reestablishment, 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                    |     |          |
|    |       | <b>pagingAnyChannel</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                    |     |          |
| 7  |       | L!DL_UdatRqPg1Rq (TCV_Cnt := 0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)             |     | 1.       |
| 8  |       | REPEAT localtree1 UNTIL [TCV_Cnt = 7]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                    |     |          |
| 9  |       | L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)<br>START T_dly(C_T_Wait)                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ChReq(ChRequest_1 2)                               | (P) | 2.       |
| 10 |       | L!DL_UdatRqImmAssRej                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rr, TCV_Fn)) |     |          |
|    |       | <b>pagingSDCCH</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                    |     |          |
| 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]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                    |     |          |
| 14 |       | L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)<br>START T_dly(C_T_Wait)                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ChReq(ChRequest_0 3)                               | (P) | 5.       |
| 15 |       | L!DL_UdatRqImmAssRej                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rr, TCV_Fn)) |     |          |
|    |       | <b>pagingTCHF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                    |     |          |
| 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?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)<br>START T_dly(C_T_Wait) | ChReq(ChRequest_1<br>3)                                       | (P) |     |
| 20                      | L!DL_UdatRqImmRej                                                                                         | ImmAssRej(TCV_agc<br>h,<br>ImmAsgnRej_01(TCV<br>_Rr, TCV_Fn)) |     |     |
| <b>pagingTCHHorTCHF</b> |                                                                                                           |                                                               |     |     |
| 21                      | ?TIMEOUT T_dly                                                                                            |                                                               |     |     |
| 22                      | L!DL_UdatRqPg1Rq (TCV_Cnt := 0)                                                                           | PgReq1(TCV_PgCh,<br>TCV_Pgg,<br>PgReqTp1_04)                  |     | 10. |
| 23                      | REPEAT localtree4 UNTIL [TCV_Cnt = 7]                                                                     |                                                               |     |     |
| 24                      | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                          | ChReq(ChRequest_1<br>4)                                       | (P) |     |
| 25                      | L!DL_UdatRqImmRej                                                                                         | ImmAssRej(TCV_agc<br>h,<br>ImmAsgnRej_01(TCV<br>_Rr, TCV_Fn)) |     |     |
| <b>localtree1</b>       |                                                                                                           |                                                               |     |     |
| 26                      | L?DL_RaInChRq                                                                                             | ChReq(ChRequest_1<br>2)                                       | (P) | 2.  |
| 27                      | (TCV_Cnt := TCV_Cnt + 1)                                                                                  |                                                               |     |     |
| <b>localtree2</b>       |                                                                                                           |                                                               |     |     |
| 28                      | L?DL_RaInChRq                                                                                             | ChReq(ChRequest_0<br>3)                                       | (P) | 5.  |
| 29                      | (TCV_Cnt := TCV_Cnt + 1)                                                                                  |                                                               |     |     |
| <b>localtree3</b>       |                                                                                                           |                                                               |     |     |
| 30                      | [TCV_CC AND(NOT TSPC_DualRate)]                                                                           |                                                               |     |     |
| 31                      | L?DL_RaInChRq                                                                                             | ChReq(ChRequest_1<br>2)                                       | (P) | 7.  |
| 32                      | (TCV_Cnt := TCV_Cnt + 1)                                                                                  |                                                               |     |     |
| 33                      | [TSPC_DualRate]                                                                                           |                                                               |     |     |
| 34                      | L?DL_RaInChRq                                                                                             | ChReq(ChRequest_0<br>7)                                       | (P) | 8.  |
| 35                      | (TCV_Cnt := TCV_Cnt + 1)                                                                                  |                                                               |     |     |
| 36                      | [TSPC_SDCCHOnly]                                                                                          |                                                               |     |     |
| 37                      | L?DL_RaInChRq                                                                                             | ChReq(ChRequest_0<br>3)                                       | (P) | 9.  |
| 38                      | (TCV_Cnt := TCV_Cnt + 1)                                                                                  |                                                               |     |     |
| <b>localtree4</b>       |                                                                                                           |                                                               |     |     |
| 39                      | [TCV_CC AND(NOT TSPC_DualRate)]                                                                           |                                                               |     |     |
| 40                      | L?DL_RaInChRq                                                                                             | ChReq(ChRequest_1<br>2)                                       | (P) | 11. |
| 41                      | (TCV_Cnt := TCV_Cnt + 1)                                                                                  |                                                               |     |     |
| 42                      | [TSPC_DualRate]                                                                                           |                                                               |     |     |
| 43                      | L?DL_RaInChRq                                                                                             | ChReq(ChRequest_0<br>8)                                       | (P) | 12. |
| 44                      | (TCV_Cnt := TCV_Cnt + 1)                                                                                  |                                                               |     |     |
| 45                      | [TSPC_SDCCHOnly]                                                                                          |                                                               |     |     |
| 46                      | L?DL_RaInChRq                                                                                             | ChReq(ChRequest_0<br>3)                                       | (P) | 13. |
| 47                      | (TCV_Cnt := TCV_Cnt + 1)                                                                                  |                                                               |     |     |

**Detailed Comments:**

1. To send a PAGING REQUEST TYPE1 message with paging indication = any channel.
2. The establishment cause shall be '100'B.
3. The test system waits for 5 seconds.
4. To send a PAGING REQUEST TYPE1 message with paging indication = SDCCH.
5. The establishment cause shall be '0001'B.
6. To send a PAGING REQUEST TYPE1 message with paging indication = TCH/F.
7. The establishment cause shall be '100'B, if the MS capability is full rate only.
8. The establishment cause shall be '0010'B, if the MS capability is dual rate.
9. The establishment cause shall be '0001'B, if the MS capability is SDCCH only.
10. To send a PAGING REQUEST TYPE1 message with paging indication = TCH/H or TCH/F

11. The establishment cause shall be '100'B, if the MS capability is full rate only.
12. The establishment cause shall be '0011'B, if the MS capability is dual rate.
13. The establishment cause shall be '0001'B, if the MS capability is SDCCH only.



| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_2_4_6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/InitialTest/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
| <b>Purpose:</b>             |       | 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: <ol style="list-style-type: none"> <li>1. when the NECI bit is set to 0 and IMSI attach is attempted.</li> <li>2. when the NECI bit is set to 0 and normal location updating is attempted.</li> <li>3. when the NECI bit is set to 0 and periodic location updating is attempted.</li> <li>4. when the NECI bit is set to 0 and IMSI detach is attempted.</li> <li>5. when the NECI bit is set to 1 and IMSI attach is attempted.</li> <li>6. when the NECI bit is set to 1 and normal location updating is attempted.</li> <li>7. when the NECI bit is set to 1 and periodic location updating is attempted.</li> <li>8. when the NECI bit is set to 1 and IMSI detach is attempted.</li> </ol> |      |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CRef | V | Comments |
| 1                           |       | START T_guard(1200)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |   |          |
| 2                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, 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]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
|                             |       | <b>ltree_main</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   |          |
| 5                           |       | +SysInfoSending_nfh(C_SCH_A, C_BCCH_A_1, C_TxInt_5, C_Max_7, TCV_Cnt1, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, TCV_lac, CellOpt_01, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_NCCP_2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   | 1.       |
| 6                           |       | (TCV_Ccd0A := TCV_Ccd0H, TCV_sysinfo5 := TCV_sysinfo5, TCV_sysinfo6 := TCV_sysinfo6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |          |
| 7                           |       | +SysInfo_SacchSending(TCV_sacch, TCV_sysinfo5, TCV_sysinfo6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
| 8                           | body  | +MM_PwrOrSimOff(C_SIMIn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
| 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_sysinfo5, TCV_sysinfo6 := TCV_sysinfo6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |          |
| 11                          |       | +SysInfo_SacchSending(TCV_sacch, TCV_sysinfo5, TCV_sysinfo6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
| 12                          |       | +MM_PwrOrSimOn(C_SIMIn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   | 2.       |
| 13                          |       | +imsiAttachCheck                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| 14                          |       | +ChgLac                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| 15                          |       | +ltree_continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   |          |

|    |                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                               |     |  |     |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----|--|-----|
| 16 | <b>ltree_continue</b><br>+SysInfoSending_nfh(C_SCH_A, C_BCCH_A_1,<br>C_TxInt_5, C_Max_7, TCV_Cnt1, C_ATT_1,<br>C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1,<br>C_ci_cellA, C_MCC_1, C_PLMN_1, TCV_lac,<br>CellOpt_01, C_CellReselectHys12, C_MaxPwrLvlG,<br>C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC, C_NCCP_2) |                                                                                                                                               |     |  | 3.  |
| 17 | (TCV_Ccd0A := TCV_Ccd0H, TCV_sysinfo5 :=<br>TCV_sysinfo5, TCV_sysinfo6 := TCV_sysinfo6)                                                                                                                                                                                                                                                                                                 |                                                                                                                                               |     |  |     |
| 18 | +SysInfo_SacchSending(TCV_sacch,<br>TCV_sysinfo5, TCV_sysinfo6)                                                                                                                                                                                                                                                                                                                         |                                                                                                                                               |     |  | 7.  |
| 19 | +UpdatingCheck(30000, C_normal_updating)                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                               |     |  | 9.  |
| 20 | +UpdatingCheck(420000,<br>C_periodic_updating)                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                               |     |  | 10. |
| 21 | [TSPC_SwitchOnOff]                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                               |     |  | 11. |
| 22 | +imsiDetachCheck                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                               |     |  |     |
| 23 | (TCV_Cnt1 := TCV_Cnt1 + 1)                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                               |     |  |     |
| 24 | [NOT TSPC_SwitchOnOff]                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                               |     |  |     |
| 25 | (TCV_Cnt1 := TCV_Cnt1 + 1)                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                               |     |  |     |
|    | <b>imsiAttachCheck</b>                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                               |     |  |     |
| 26 | (TCV_Cnt := 0)                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                               |     |  |     |
| 27 | REPEAT localtree1 UNTIL [TCV_Cnt = 8]                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                               |     |  |     |
| 28 | L!DL_UdatRqImm                                                                                                                                                                                                                                                                                                                                                                          | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(0))) |     |  |     |
| 29 | L?DL_EstInLupRq                                                                                                                                                                                                                                                                                                                                                                         | LocUp(TCV_ch,<br>LocUpdtReq_01(C_im<br>si_attach))                                                                                            | (P) |  | 5.  |
| 30 | L!DL_DatRqLupAcp                                                                                                                                                                                                                                                                                                                                                                        | LocAcp(TCV_ch,<br>LocUpdtAcp_01(MiMs<br>i_omit, C_MCC_1,<br>C_PLMN_1,<br>TCV_lac))                                                            |     |  | 6.  |
| 31 | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                               |     |  |     |
|    | <b>UpdatingCheck(t:INTEGER; locup:B_2)</b>                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                               |     |  |     |
| 32 | START T_dly(t)                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                               |     |  |     |
| 33 | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                               |     |  |     |
| 34 | (TCV_Cnt := 0)                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                               |     |  |     |
| 35 | REPEAT localtree1 UNTIL [TCV_Cnt = 8]                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                               |     |  |     |
| 36 | L!DL_UdatRqImm                                                                                                                                                                                                                                                                                                                                                                          | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(0))) |     |  |     |
| 37 | L?DL_EstInLupRq                                                                                                                                                                                                                                                                                                                                                                         | LocUp(TCV_ch,<br>LocUpdtReq_01(locu<br>p))                                                                                                    | (P) |  |     |
| 38 | L!DL_DatRqLupAcp                                                                                                                                                                                                                                                                                                                                                                        | LocAcp(TCV_ch,<br>LocUpdtAcp_01(MiMs<br>i_omit, C_MCC_1,<br>C_PLMN_1,<br>TCV_lac))                                                            |     |  | 6.  |
| 39 | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                               |     |  |     |
|    | <b>imsiDetachCheck</b>                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                               |     |  |     |
| 40 | +MM_PwrOrSimOff(C_SIMIn)                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                               |     |  | 12. |
| 41 | (TCV_Cnt := 0)                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                               |     |  |     |
| 42 | REPEAT localtree2 UNTIL [TCV_Cnt = 8]                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                               |     |  |     |

|                           |                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |     |
|---------------------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|
| 43                        | LIDL_UdatRqImmRej                                                                                          | ImmAssRej(TCV_agc<br>h,<br>ImmAsgnRej_01(TCV<br>_Rr, TCV_Fn))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |     |
| 44                        | +MM_PwrOrSimOn(C_SIMIn)                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     | 2.  |
|                           | <b>localtree1</b>                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |     |
| 45                        | [TCV_Cnt1=0]                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |     |
| 46                        | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)<br>(TCV_Cnt := TCV_Cnt+1) | ChReq(ChRequest_0<br>9)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | (P) | 4.  |
| 47                        |                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |     |
| 48                        | [TCV_Cnt1=1]                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |     |
| 49                        | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)<br>(TCV_Cnt := TCV_Cnt+1) | ChReq(ChRequest_1<br>8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | (P) | 8.  |
| 50                        |                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |     |
|                           | <b>localtree2</b>                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |     |
| 51                        | [TCV_Cnt1=0]                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |     |
| 52                        | L?DL_RaInChRq (TCV_Fn := DL_RaInChRq.fn,<br>TCV_Rr := DL_RaInChRq. msg.ecau_rrf)<br>(TCV_Cnt := TCV_Cnt+1) | ChReq(ChRequest_0<br>4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | (P) | 13. |
| 53                        |                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |     |
| 54                        | [TCV_Cnt1=1]                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |     |
| 55                        | L?DL_RaInChRq (TCV_Fn := DL_RaInChRq.fn,<br>TCV_Rr := DL_RaInChRq. msg.ecau_rrf)<br>(TCV_Cnt := TCV_Cnt+1) | ChReq(ChRequest_0<br>3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | (P) | 14. |
| 56                        |                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |     |
|                           | <b>ChgLac</b>                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |     |
| 57                        | [TCV_Cnt1=0]                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |     |
| 58                        | (TCV_lac := C_LAC_2)                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |     |
| 59                        | [TCV_Cnt1=1]                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |     |
| 60                        | (TCV_lac := C_LAC_1)                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |     |
| <b>Detailed Comments:</b> |                                                                                                            | <ol style="list-style-type: none"> <li>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.</li> <li>2. To switch on or power on the MS.</li> <li>3. To change LAC and set T3212 = 6 minutes.</li> <li>4. The establishment cause shall be '000'B.</li> <li>5. The location updating type shall be IMSI attach.</li> <li>6. There is no mobile identity in this LOCATION UPDATING ACCEPT message.</li> <li>7. The test system waits for 30 seconds to receive CHANNEL REQUEST messages.</li> <li>8. The establishment cause shall be '0000'B.</li> <li>9. The location updating type shall be normal location updating.</li> <li>10. The test system waits for 7 minutes to receive CHANNEL REQUEST messages.</li> <li>11. The location updating type shall be periodic updating.</li> <li>12. To switch off the MS.</li> <li>13. The establishment cause shall be '111'B.</li> <li>14. The establishment cause shall be '0001'B.</li> </ol> |     |     |

### Test Case Dynamic Behaviour

**Test Case Name:** TC\_26\_2\_4\_7  
**Group:** GSM\_L3\_MS\_v4180/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.  
**Default:** OtherEventsFail

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                               | V   | 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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2) |                                                    |     |          |
| 3  |       | (TCV_Cnt1:=0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                    |     |          |
| 4  |       | REPEAT Itree_main UNTIL [TCV_Cnt1 = 2]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                    |     |          |
|    |       | <b>Itree_main</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                    |     |          |
| 5  |       | +SysInfoSending_nfh(C_SCH_A, C_BCCH_A_1, C_TxInt_5, C_Max_7, TCV_Cnt1, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_NCCP_2)                                                                                                                                                                                                                           |                                                    |     | 1.       |
| 6  |       | (TCV_Ccd0A := TCV_Ccd0H, TCV_sysinfo5 := TCV_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?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ChReq(ChRequest_04)                                | (P) | 3.       |
| 13 |       | L!DL_UdatRqImmassRej                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rr, TCV_Fn)) |     |          |
| 14 |       | (TCV_Cnt1 := TCV_Cnt1 +1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                    |     |          |
| 15 |       | [TCV_Cnt1=1]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    |     |          |
| 16 |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ChReq(ChRequest_03)                                | (P) | 4.       |
| 17 |       | L!DL_UdatRqImmassRej                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rr, TCV_Fn)) |     |          |
| 18 |       | (TCV_Cnt1 := TCV_Cnt1 +1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                    |     |          |
|    |       | <b>localtree</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                    |     |          |
| 19 |       | [TCV_Cnt1=0]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    |     |          |
| 20 |       | L?DL_RaInChRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ChReq(ChRequest_04)                                |     | 3.       |
| 21 |       | (TCV_Cnt := TCV_Cnt +1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                    |     |          |
| 22 |       | [TCV_Cnt1=1]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    |     |          |

|                           |  |                                                                                                                                                                                                                                                                                                                                      |                         |    |
|---------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----|
| 23                        |  | L?DL_RacInChRq                                                                                                                                                                                                                                                                                                                       | ChReq(ChRequest_0<br>3) | 4. |
| 24                        |  | (TCV_Cnt := TCV_Cnt +1)                                                                                                                                                                                                                                                                                                              |                         |    |
| <b>Detailed Comments:</b> |  | <ol style="list-style-type: none"><li>1. The Max_retrans =7. TCV_Cnt1 value stands for NECI bit value.</li><li>2. To attempt a non call related supplementary service at the MS under test.</li><li>3. The establishment cause shall be '111'B (NECI = 0).</li><li>4. The establishment cause shall be '0001'B (NECI = 1).</li></ol> |                         |    |

### Test Case Dynamic Behaviour

**Test Case Name:** TC\_26\_2\_4\_8  
**Group:** GSM\_L3\_MS\_v4180/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.  
**Default:** OtherEventsFail

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CRef                                               | V   | 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)<br>(TCV_Cnt1:=0) |                                                    |     |          |
| 3  |       | REPEAT ltree_main UNTIL [TCV_Cnt1 = 2]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                    |     |          |
| 4  |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    |     |          |
| 5  |       | <b>ltree_main</b><br>+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)<br>(TCV_Ccd0A := TCV_Ccd0H, TCV_sysinfo5 := TCV_sysinfo5, TCV_sysinfo6 := TCV_sysinfo6)                                                                                                                                 |                                                    |     | 1.       |
| 6  |       | +SysInfo_SacchSending(TCV_sacch, TCV_sysinfo5, TCV_sysinfo6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                    |     |          |
| 7  |       | +AtrmpShortMsg<br>(TCV_Cnt :=0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    |     | 2.       |
| 8  | body  | REPEAT localtree UNTIL [TCV_Cnt=7]<br>[TCV_Cnt1=0]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                    |     |          |
| 9  |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ChReq(ChRequest_04)                                | (P) | 3.       |
| 10 |       | L!DL_UdatRqImmassRej                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rr, TCV_Fn)) |     |          |
| 11 |       | (TCV_Cnt1 := TCV_Cnt1 +1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                    |     |          |
| 12 |       | [TCV_Cnt1=1]<br>L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ChReq(ChRequest_03)                                | (P) | 4.       |
| 13 |       | L!DL_UdatRqImmassRej                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rr, TCV_Fn)) |     |          |
| 14 |       | (TCV_Cnt1 := TCV_Cnt1 +1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                    |     |          |
| 15 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    |     |          |
| 16 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    |     |          |
| 17 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    |     |          |
| 18 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    |     |          |
| 19 |       | <b>localtree</b><br>[TCV_Cnt1=0]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                    |     |          |
| 20 |       | L?DL_RaInChRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ChReq(ChRequest_04)                                |     | 3.       |

|                                                                                                                                                                                                                                                                                    |                         |                         |  |    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------|--|----|
| 21                                                                                                                                                                                                                                                                                 | (TCV_Cnt := TCV_Cnt +1) |                         |  |    |
| 22                                                                                                                                                                                                                                                                                 | [TCV_Cnt1=1]            |                         |  |    |
| 23                                                                                                                                                                                                                                                                                 | L?DL_RaChRq             | ChReq(ChRequest_0<br>3) |  | 4. |
| 24                                                                                                                                                                                                                                                                                 | (TCV_Cnt := TCV_Cnt +1) |                         |  |    |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                          |                         |                         |  |    |
| 1. The Max_retrans =7. TCV_Cnt1 value stands for NECI bit value.<br>2. To attempt a mobile originated short message service transaction at the MS under test.<br>3. The establishment cause shall be '111'B (NECI = 0).<br>4. The establishment cause shall be '0001'B (NECI = 1). |                         |                         |  |    |

**Test Group IdleMode**

| Test Case Dynamic Behaviour                                                                                                                                                           |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Case Name:</b> TC_26_3_2                                                                                                                                                      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   |          |
| <b>Group:</b> GSM_L3_MS_v4180/IdleMode/                                                                                                                                               |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   |          |
| <b>Purpose:</b> 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.              |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   |          |
| <b>Default:</b> OtherEventsFail                                                                                                                                                       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   |          |
| <b>Comments:</b> 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CRef | V | Comments |
| 1                                                                                                                                                                                     |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
| 2                                                                                                                                                                                     |       | +IdleUpdated(65, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_10, C_Max_2, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_1, C_cch_1Comb, C_BPM_2, C_T3212_0, C_ci_cellA, C_MCC_2, C_PLMN_4, C_LAC_1, CellOpt_02, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys4, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax, BcchFreqLst_05, BcchFreqLst_05, BcchFreqLst_13, BcchFreqLst_13, C_noReestablishment, C_BCC, C_NCC_0, C_Start_Tmsi, TSPX_SDCC4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcn_1, C_arfcnAd_1, TSPX_IMSI, C_Test_nfh, C_NCCP_2) |      |   |          |
| 3                                                                                                                                                                                     |       | +MM_PwrOrSimOff(C_SIMIn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 4                                                                                                                                                                                     |       | +StartMultiCells_01(C_Immass, TCV_slot, TCV_tsc, TimingAdv(0), C_ATT_0, C_BABR_1, C_cch_1Comb, C_BPM_2, C_T3212_0, C_MCC_3, C_PLMN_5, C_MCC_4, C_PLMN_6, C_MCC_5, C_PLMN_7, C_MCC_6, C_PLMN_8, C_MCC_7, C_PLMN_9, C_MCC_8, C_PLMN_10, C_MCC_1, C_PLMN_1, C_LAC_1)                                                                                                                                                                                                                                                                                                       |      |   |          |
| 5                                                                                                                                                                                     | body  | +MM_PwrOrSimOn(C_SIMIn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
| 6                                                                                                                                                                                     |       | (TCV_Null := OO_PLMNselModeMan())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| 7                                                                                                                                                                                     |       | +PLMNsCHK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   | 1.       |
| <b>Detailed Comments:</b> 1. Final verdict is assigned in the test step.                                                                                                              |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   |          |

| Test Case Dynamic Behaviour                                                                                                                                                                                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Case Name:</b> TC_26_3_3                                                                                                                                                                           |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
| <b>Group:</b> GSM_L3_MS_v4180/IdleMode/                                                                                                                                                                    |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
| <b>Purpose:</b> To verify that the MS will not produce any RF transmission if no BSS is received.                                                                                                          |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
| <b>Default:</b> OtherEventsFail                                                                                                                                                                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
| <b>Comments:</b> 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CRef | V | Comments |
| 1                                                                                                                                                                                                          |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| 2                                                                                                                                                                                                          |       | +BasicServiceMO(TSPX_MOBscSvcB,<br>TSPX_MOChRateB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| 3                                                                                                                                                                                                          |       | +IdleUpdated(65, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_10,<br>C_Max_2, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_1, C_cch_1Comb, C_BPM_2,<br>C_T3212_0, C_ci_cellA, C_MCC_2, C_PLMN_4,<br>C_LAC_1, CellOpt_02, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys4,<br>TSPX_MSTxpwrMax, TSPX_MSTxpwrMax,<br>BcchFreqLst_05, BcchFreqLst_05,<br>BcchFreqLst_13, BcchFreqLst_13,<br>C_noRestablishment, C_BCC, C_NCC_0,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDf, TSPX_RANDDef, C_arfcn_1,<br>C_arfcnAd_1, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |      |   |          |
| 4                                                                                                                                                                                                          |       | +StartMultiCells_01(C_Immass, TCV_slot,<br>TCV_tsc, TimingAdv(0), 0, '001'B, '001'B,<br>'010'B, '00'O, C_MCC_3, C_PLMN_5,<br>C_MCC_4, C_PLMN_6, C_MCC_5,<br>C_PLMN_7, C_MCC_6, C_PLMN_8,<br>C_MCC_7, C_PLMN_9, C_MCC_8,<br>C_PLMN_10, C_MCC_1, C_PLMN_1,<br>C_LAC_1)                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
| 5                                                                                                                                                                                                          | body  | +StopAllBCCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   |          |
| 6                                                                                                                                                                                                          |       | START T_dly(20000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| 7                                                                                                                                                                                                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| 8                                                                                                                                                                                                          |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   |          |
| 9                                                                                                                                                                                                          |       | +RFtransCHK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   | 1.       |
| 10                                                                                                                                                                                                         |       | [TSPC_Serv_TS12]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
| 11                                                                                                                                                                                                         |       | +InitCall(C_EmgCall)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
| 12                                                                                                                                                                                                         |       | +RFtransCHK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   | 1.       |
| 13                                                                                                                                                                                                         |       | [NOT TSPC_Serv_TS12]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
| <b>Detailed Comments:</b> 1. The verdict is assigned in these test steps.                                                                                                                                  |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |



| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                        |     |                         |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| <b>Test Case Name:</b>      |       | TC_26_3_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                        |     |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/IdleMode/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                        |     |                         |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                                   |                                                                                                                        |     |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                        |     |                         |
| <b>Comments:</b>            |       | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CRef                                                                                                                   | V   | Comments                |
| 1                           |       | START T_guard(420)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                        |     |                         |
| 2                           |       | +IdleUpdated(33, 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_2, C_LAC_2, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, 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_arfcnB, C_arfcnBd, TSPX_IMSI, C_Test_nfh, C_NCCP_2) |                                                                                                                        |     |                         |
| 3                           |       | +StartCellA_1(28, 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, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment)                                                                                                                                                                                                                                                                                                 |                                                                                                                        |     |                         |
| 4                           |       | +ltree_body                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                        |     |                         |
| 5                           |       | <b>ltree_body</b><br>(TCV_Null := OM_StopCell(C_CellA)) START T_dly(120000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                        |     |                         |
| 6                           |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                        | (P) | 1.                      |
| 7                           |       | +StartCellA_1(38, 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)                                                                                                                                                                                                                                                                                                 |                                                                                                                        |     |                         |
| 8                           |       | START T_dly(120000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                        |     |                         |
| 9                           |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                        | (P) | 1.                      |
| 10                          |       | (TCV_Null := OO_SelPLMN(C_PLMN_2))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                        |     |                         |
| 11                          |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ChReq(ChRequest_02)                                                                                                    |     |                         |
| 12                          |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                        |     | To match ChReq retrans. |
| 13                          |       | LIDL_UdatRqImmass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0))) |     |                         |
| 14                          |       | L?DL_EstInLupRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LocUp(TCV_ch, LocUpdtReq_05)                                                                                           | (P) | 2.                      |
| 15                          |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                        |     | Restore Normal default  |
| 16                          |       | LIDL_DatRqLupAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | LocAcp(TCV_ch, LocUpdtAcp_01(MiMs_i_omit, C_MCC_1, C_PLMN_1, C_LAC_1))                                                 |     |                         |
| 17                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                        |     |                         |
| 18                          |       | (TCV_Null :=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                        |     |                         |

|                           |  |                                                                                                                                                                                                     |     |    |
|---------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 19                        |  | OM_StopCell(C_CellB)<br>START T_dly(120000)<br>?TIMEOUT T_dly                                                                                                                                       | (P) | 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.<br>2. The expected LOCATION UPDATING REQUEST message received on Cell B. |     |    |

## Test Group BiBo

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                 |     |          |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_5_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                 |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/BiBo/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                 |     |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                                               |                                                 |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                 |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CRef                                            | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                 |     |          |
| 2                           |       | +BasicServiceMT(TSPX_MTBscSvcA,<br>TSPX_MTChRateA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                 |     |          |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                                 |     |          |
| 4                           | body  | [TCV_CC]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |     | 1.       |
| 5                           |       | +CCConfigTCH(TSPX_TCHHSubDef, C_Ass,<br>TSPX_TmSlitDef, TSPX_TscDef,<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3, TCV_ChMod.mode,<br>FreqTCH_omit, FreqTCH_omit,<br>C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                                          |                                                 |     |          |
| 6                           |       | +PreEnterCCstateU10(TCV_Setup_mt,<br>TSPX_TmSlitDef, TSPX_TscDef,<br>TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                 |     |          |
| 7                           |       | !IDL_DatRqUnknown                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Unknown(TCV_chTch<br>,<br>UnknownMsg_01(TI_02)) |     | 2.       |
| 8                           |       | START T_dly(10000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                 |     |          |
| 9                           |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                 | (P) |          |
| 10                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                 |     |          |
| 11                          |       | [NOT TCV_CC]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                 |     | 3.       |
| 12                          |       | +PreEstRRConn(TCV_slot, TCV_tsc,<br>TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                 |     |          |
| 13                          |       | !IDL_DatRqUnknown                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Unknown(TCV_ch,<br>UnknownMsg_02(TI_04))        |     | 4.       |
| 14                          |       | START T_dly(10000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                 |     |          |
| 15                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                 | (P) |          |
| 16                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |     |          |
| <b>Detailed Comments:</b>   |       | 1. If the MS supports any bearer capability the test case goes through this branch.<br>2. To send a CC STATUS ENQUIRY alike unknown message on channel FACCH.<br>3. If the MS does not support any bearer capability the test case goes through this branch.<br>4. To send a CC STATUS ENQUIRY alike unknown message on channel SDCCH4.                                                                                                                                                                                                                                                                          |                                                 |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                     |     |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_5_2_1_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                     |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/BiBo/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                     |     |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                                                              |                                                     |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                     |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CRef                                                | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                     |     |          |
| 2                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immss, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, 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                           |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                     | (P) |          |
| 8                           |       | <b>localtree</b><br>L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_inv_01(TCV_Cnt)) |     | 1.       |
| 9                           |       | START T_dly(3000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                     |     |          |
| 10                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                     |     |          |
| 11                          |       | (TCV_Cnt := TCV_Cnt+1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                     | (P) |          |
| <b>Detailed Comments:</b>   |       | 1. To send PAGING REQUEST TYPE 1 message with unknown skip indicator.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                     |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                        |    |               |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|----|---------------|
| <b>Test Case Name:</b>      |       | TC_26_5_2_1_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                        |    |               |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/BiBo/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                        |    |               |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                              |                                                                                                                        |    |               |
| <b>Default:</b>             |       | RR-connected mode.<br>OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                        |    |               |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                                                                                                   | V  | Comments      |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                        |    |               |
| 2                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_2, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2) |                                                                                                                        |    |               |
| 3                           | body  | LIDL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)                                                                                 |    |               |
| 4                           |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ChReq(ChRequest_17)                                                                                                    |    |               |
| 5                           |       | LIDL_UdatRqImmass START T_dly1(1000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ImmAss(TCV_agch, ImmAsgn_inv_01(TCV_Rr, TCV_Fn, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0)))                   | 2. |               |
| 6                           |       | +chRq_check                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                        |    |               |
| 7                           |       | LIDL_UdatRqImmassRej START T_dly1(1000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ImmAssRej(TCV_agch, ImmAsgnRej_inv_01(TCV_Rr, TCV_Fn))                                                                 | 4. |               |
| 8                           |       | +chRq_check                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                        |    |               |
| 9                           |       | +continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                        |    |               |
| 10                          |       | <b>continue</b><br>LIDL_UdatRqImmass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0))) |    | valid message |
| 11                          |       | L?DL_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PagingRes(PagingRes_01)                                                                                                |    |               |
| 12                          |       | LIDL_DatRqAuthRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | AuthReq(TCV_ch, AuthRequest(TSPX_CKSNDf, TSPX_RANDDef))                                                                |    |               |
| 13                          |       | L?DL_DatInAuthRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | AuthRes(AuthResponse)                                                                                                  |    |               |
| 14                          |       | LIDL_DatRqCphmCmd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CphCmd(TCV_ch, CphModeCmd_inv_02)                                                                                      | 5. |               |
| 15                          |       | LIDL_DatRqIdRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | IDReq(TCV_ch, IDRequest_01('0001'B))                                                                                   |    |               |
| 16                          |       | L?DL_DatInIdRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | IDRes(IDResponse_01)                                                                                                   |    |               |
| 17                          |       | LIDL_DatRqAssCmd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | AssCmd(TCV_ch, AsgnCmd_inv_01(TCV_slot, TCV_tsc))                                                                      | 6. |               |

|    |  |                                                                                                   |                                                                   |     |    |
|----|--|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----|----|
| 18 |  | +check2                                                                                           |                                                                   |     |    |
| 19 |  | L!DL_DatRqHoCmd                                                                                   | HndOvSnd(TCV_ch,<br>HandOverCmd_inv_0<br>1(TCV_slot,<br>TCV_tsc)) |     | 7. |
| 20 |  | +check3                                                                                           |                                                                   |     |    |
| 21 |  | L!DL_DatRqChRel                                                                                   | ChRel(TCV_ch,<br>ChRelease_inv_02)                                |     | 9. |
| 22 |  | LIDL_DatRqIdRq                                                                                    | IDReq(TCV_ch,<br>IDRequest_01('0001'<br>B))                       |     |    |
| 23 |  | L?DL_DatInIdRes                                                                                   | IDRes(IDResponse_0<br>1)                                          | (P) |    |
| 24 |  | +PostLinkRelEnd(TCV_ch<br>)                                                                       |                                                                   |     |    |
|    |  | <b>check2</b>                                                                                     |                                                                   |     |    |
| 25 |  | START T_dly(3000)                                                                                 |                                                                   |     |    |
| 26 |  | L?DL_EstIn                                                                                        | DLEstIn(TCV_ch)                                                   | (F) |    |
| 27 |  | ?TIMEOUT T_dly                                                                                    |                                                                   | (P) |    |
|    |  | <b>check3</b>                                                                                     |                                                                   |     |    |
| 28 |  | START T_dly(3000)                                                                                 |                                                                   |     | 8. |
| 29 |  | L?DL_EstIn                                                                                        | DLEstIn(TCV_ch)                                                   |     |    |
| 30 |  | L?DL_DatInHofl                                                                                    | HndOvFIRcv(TCV_ch,<br>HandOvFail_01)                              | (F) |    |
| 31 |  | L?DL_DatInRrst                                                                                    | RrStatusRcv(TCV_ch,<br>RRStatus_01)                               | (F) |    |
| 32 |  | ?TIMEOUT T_dly                                                                                    |                                                                   | (P) |    |
|    |  | <b>chRq_check</b>                                                                                 |                                                                   |     |    |
| 33 |  | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)<br>CANCEL T_dly1 | ChReq(ChRequest_1<br>7)                                           | (P) | 3. |
| 34 |  | ?TIMEOUT T_dly1                                                                                   |                                                                   | (F) |    |

**Detailed Comments:**

1. To set the Max\_Retrans = 2.
2. To send an invalid IMMEDIATE ASSIGNMENT message with skip indicator = 1.
3. Retransmission of Channel request within 1s indicates that mobile ignored the message with invalid skip indicator.
4. To send an invalid IMMEDIATE ASSIGNMENT REJECT message with skip indicator = 2.
5. To send an invalid CIPHERING MODE COMMAND message with skip indicator = 3.
6. To send an invalid ASSIGNMENT COMMAND message with skip indicator = 4.
7. To send an invalid HANOVER COMMAND message with skip indicator = 5.
8. To check that there is no HANOVER FAILURE or RR-STATUS message on old channel.
9. To send an invalid CHANNEL RELEASE message with skip indicator = 6.

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                      |     |          |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_5_2_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                      |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/BiBo/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                      |     |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                                                                    |                                                      |     |          |
| <b>Default:</b>             |       | OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                      |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CRef                                                 | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                      |     |          |
| 2                           |       | +BasicServiceMT(TSPX_MTBscSvcB,<br>TSPX_MTChRateB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                      |     |          |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                                      |     |          |
| 4                           | body  | [TCV_CC]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                      |     |          |
| 5                           |       | +CCConfigTCH(TSPX_TCHHSubDef, C_Ass,<br>TSPX_TmSlitDef, TSPX_TscDef,<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3, TCV_ChMod.mode,<br>FreqTCH_omit, FreqTCH_omit,<br>C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                                            |                                                      |     |          |
| 6                           |       | +PreEnterCCstateU10(TCV_Setup_mt,<br>TSPX_TmSlitDef, TSPX_TscDef,<br>TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                      | 1.  |          |
| 7                           |       | +maintest1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                      |     |          |
| 8                           |       | [NOT TCV_CC]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                      |     | 2.       |
| 9                           |       | +PreEstRRConn(TCV_slot, TCV_tsc,<br>TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                      |     |          |
| 10                          |       | +maintest2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                      |     |          |
| 11                          |       | <b>maintest1</b><br>(TCV_Cnt := 0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                      |     |          |
| 12                          |       | REPEAT subtree1 UNTIL [TCV_Cnt = 6]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                      |     |          |
| 13                          |       | LIDL_DatRqldRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | IDReq(TCV_chTch,<br>IDRequest_inv_01(8))             |     | 3.       |
| 14                          |       | START T_dly(5000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                      |     |          |
| 15                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                      | (P) |          |
| 16                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                      |     |          |
| 17                          |       | <b>maintest2</b><br>(TCV_Cnt := 0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                      |     |          |
| 18                          |       | REPEAT subtree2 UNTIL [TCV_Cnt = 6]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                      |     |          |
| 19                          |       | LIDL_DatRqldRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | IDReq(TCV_ch,<br>IDRequest_inv_01(8))                |     | 4.       |
| 20                          |       | START T_dly(5000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                      |     |          |
| 21                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                      | (P) |          |
| 22                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                      |     |          |
| 23                          |       | <b>subtree1</b><br>LIDL_DatRqldRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | IDReq(TCV_chTch,<br>IDRequest_inv_01(TC<br>V_Cnt+1)) |     | 3.       |
| 24                          |       | START T_dly(1000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                      |     |          |
| 25                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                      | (P) |          |
| 26                          |       | (TCV_Cnt := TCV_Cnt + 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                      |     |          |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                   |                                                   |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------|-----|
| 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>subtree2</b><br>L!DL_DatRqldRq | IDReq(TCV_ch,<br>IDRequest_inv_01(TC<br>V_Cnt+1)) | 4.  |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | START T_dly(1000)                 |                                                   |     |
| 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ?TIMEOUT T_dly                    |                                                   | (P) |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | (TCV_Cnt := TCV_Cnt + 1)          |                                                   |     |
| <p><b>Detailed Comments:</b></p> <ol style="list-style-type: none"> <li>1. This subtree is for the MS supporting at least one bearer capability.</li> <li>2. This subtree is for the MS not supporting any bearer capability.</li> <li>3. To send an invalid IDENTITY REQUEST message containing incorrect skip indicator on channel<br/>FACCH.</li> <li>4. To send an invalid IDENTITY REQUEST message containing incorrect skip indicator on channel<br/>SDCCH4.</li> </ol> |                                   |                                                   |     |

### Test Case Dynamic Behaviour

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_26_5_2_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Group:</b>          | GSM_L3_MS_v4180/BiBo/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Purpose:</b>        | <p>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).</p> <p>b) To verify that the MS having a mobile terminating call in CC-state U10, "active", on receipt of a</p> <p>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</p> <p>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</p> <p>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).</p> <p>c) To verify that the MS ignores a CC message with a TI value 111.</p> <p>The test is only applicable to an MS supporting the call control protocol for at least one BC.</p> |
| <b>Default:</b>        | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CRef                                       | V | 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_Immss, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, 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  |       | +PreEnterCCstateU10(TCV_Setup_mt, TSPX_TmSlitDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                            |   |          |
| 6  | body  | +test_a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                            |   |          |
| 7  |       | +test_b1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                            |   |          |
| 8  |       | +test_b2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                            |   |          |
| 9  |       | +test_b3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                            |   |          |
| 10 |       | +test_c                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                            |   |          |
|    |       | <b>test_a</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                            |   |          |
| 11 |       | L!DL_DatRqDisc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Disc_inv(TCV_chTch, Disconn_inv_01(TI_03)) |   | 1.       |
| 12 |       | L?DL_DatInRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | RelComRcv(Release Cmp_52(TI_05))           |   |          |
| 13 |       | +CCstatuschk_01(TCV_chTch, C_U10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                            |   |          |
|    |       | <b>test_b1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                            |   |          |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                   |                                            |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------------------------------------|-----|
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | L!DL_DatRqRelCmp                  | RelComSnd(TCV_chTch, ReleaseCmp_02(TI_04)) | 2.  |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | START T_dly(5000)                 |                                            |     |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ?TIMEOUT T_dly                    |                                            | (P) |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | +CCstatuschk_01(TCV_chTch, C_U10) |                                            |     |
| <b>test_b2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                   |                                            |     |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | L!DL_DatRqSetup                   | SetupSnd(TCV_chTch, Setup_inv_01(TI_01))   | 3.  |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | START T_dly(5000)                 |                                            |     |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ?TIMEOUT T_dly                    |                                            | (P) |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | +CCstatuschk_01(TCV_chTch, C_U10) |                                            |     |
| <b>test_b3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                   |                                            |     |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | L!DL_DatRqSetup                   | SetupSnd(TCV_chTch, Setup_03(TI_02))       | 4.  |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | START T_dly(5000)                 |                                            |     |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ?TIMEOUT T_dly                    |                                            | (P) |
| 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | +CCstatuschk_01(TCV_chTch, C_U10) |                                            |     |
| <b>test_c</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                   |                                            |     |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | L!DL_DatRqDisc                    | Disc_inv(TCV_chTch, Disconn_inv_01(TI_06)) | 5.  |
| 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | START T_dly(5000)                 |                                            |     |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ?TIMEOUT T_dly                    |                                            | (P) |
| 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | +CCstatuschk_01(TCV_chTch, C_U10) |                                            |     |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | +PostMainLinkRel(TCV_chTch)       |                                            |     |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                   |                                            |     |
| <ol style="list-style-type: none"> <li>1. The TI value of the DISCONNECT message does not refer to the active call.</li> <li>2. The TI value of the RELEASE COMPLETE message does not refer to the active call ('0000'B).</li> <li>3. The TI flag of the SETUP message is set to 1 and TI value refers to the active call.</li> <li>4. This SETUP contains TI refers to the active call ('0000'B).</li> <li>5. The TI value of the DISCONNECT message is '111'B.</li> </ol> |                                   |                                            |     |

| Test Case Dynamic Behaviour                                                                                                                                                                                                                                                                                                                                                                                                       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                        |     |          |
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| <b>Test Case Name:</b> TC_26_5_3_1                                                                                                                                                                                                                                                                                                                                                                                                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                        |     |          |
| <b>Group:</b> GSM_L3_MS_v4180/BiBo/                                                                                                                                                                                                                                                                                                                                                                                               |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                        |     |          |
| <b>Purpose:</b> 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.) |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                        |     |          |
| <b>Default:</b> OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                        |     |          |
| Nr                                                                                                                                                                                                                                                                                                                                                                                                                                | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                   | V   | 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                                                                                                                                                                                                                                                                                                                                                                                                                                 |       | +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(TCV_Setup_mt, TSPX_TmSlitDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        |     |          |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                 | body  | L!DL_DatRqUndefCC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | UndefCC(TCV_chTch, UndefCC_02(TI_02))  |     | 1.       |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                 |       | L?DL_DatInCcst                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CCStRcv(TCV_chTch, CCStatus_02(TI_01)) | (P) |          |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                 |       | +CCstatuschk_01(TCV_chTch, C_U10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |     |          |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                 |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                        |     |          |
| <b>Detailed Comments:</b> 1. This is an undefined CC message.                                                                                                                                                                                                                                                                                                                                                                     |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                        |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                |     |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_5_3_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/BiBo/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                |     |          |
| <b>Purpose:</b>             |       | 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. |                                |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CRef                           | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |     |          |
| 2                           |       | +BasicServiceMT(TSPX_MTBscSvcE,<br>TSPX_MTChRateE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                |     |          |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2)                                      |                                |     |          |
| 4                           |       | +CCConfigTCH(TSPX_TCHHSubDef, C_Ass,<br>TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>TCV_ChMod.mode, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                |     |          |
| 5                           |       | +PreEnterCCstateU10(TCV_Setup_mt,<br>TSPX_TmSltDef, TSPX_TscDef,<br>TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                |     |          |
| 6                           | body  | L!DL_DatRqUndefMM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | UndefMM(TCV_chTch, UndefMM_01) |     | 1.       |
| 7                           |       | L?DL_DatInMmst                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MMSt(MMstatus_01)              | (P) |          |
| 8                           |       | +CCstatuschk_01(TCV_chTch, C_U10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                |     |          |
| 9                           |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                |     |          |
| <b>Detailed Comments:</b>   |       | 1. This is an undefined MM message.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      |     |                           |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----|---------------------------|
| <b>Test Case Name:</b>      |       | TC_26_5_3_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                      |     |                           |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/BiBo/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                      |     |                           |
| <b>Purpose:</b>             |       | 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.)                                                                                                                                                                                                                                                                                                                     |                                      |     |                           |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      |     |                           |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CRef                                 | V   | Comments                  |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                      |     |                           |
| 2                           |       | [TSPC_MTsvc]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      |     |                           |
| 3                           |       | +BasicServiceMT(TSPX_MTBscSvcD,<br>TSPX_MTChRateD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                      |     |                           |
| 4                           |       | +maintree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                      |     |                           |
| 5                           |       | [NOT TSPC_MTsvc]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      |     |                           |
| 6                           |       | +maintree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                      |     |                           |
| 7                           |       | <b>maintree</b><br>+IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immss, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1,<br>C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0,<br>C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA,<br>C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01,<br>CellChDes_Omit, CellChDes_Omit,<br>C_CellReselectHys12, C_MaxPwrLvIG,<br>C_MaxPwrLvID, BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi,<br>TSPX_SDCCH4SubDef, TSPX_CKSNDDef,<br>TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI,<br>C_Test_nfh, C_NCCP_2) |                                      |     |                           |
| 8                           |       | +PreEstRRConn(TCV_slot, TCV_tsc, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                      |     |                           |
| 9                           | body  | LIDL_DatRqUndefRR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | UndefRR(TCV_ch,<br>UndefRR_01)       |     | 1.                        |
| 10                          |       | L?DL_DatInRrst                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | RrStatusRcv(TCV_ch,<br>RRStatus_03)  |     |                           |
| 11                          |       | START T_dly(5000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                      |     | Start L2 fill frame check |
| 12                          |       | L?OTHERWISE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                      | F   | L3 msg received           |
| 13                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                      | (P) |                           |
| 14                          |       | [TSPC_MTsvc]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      |     | 2.                        |
| 15                          |       | +Authentication(TCV_ch,<br>TSPX_CKSNDDef, TSPX_RANDDef)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      |     |                           |
| 16                          |       | +Ciphering_on(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                      |     |                           |
| 17                          |       | LIDL_DatRqSetup                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SetupSnd(TCV_ch,<br>TCV_Setup_mt)    |     |                           |
| 18                          |       | L?DL_DatInCallCo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CallCfm(CallConfirm_01(TI_01))       | (P) |                           |
| 19                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                      |     |                           |
| 20                          |       | [NOT TSPC_MTsvc]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      |     | 3.                        |
| 21                          |       | LIDL_DatRqSetup                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SetupSnd(TCV_ch,<br>Setup_01(TI_02)) |     |                           |
| 22                          |       | L?DL_DatInRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | RelComRcv(Release<br>Cmp_03(TI_01))  | (P) |                           |
| 23                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                      |     |                           |
| <b>Detailed Comments:</b>   |       | 1. To send an undefined RR message.<br>2. If the MS supports at least one bearer capability, the test case goes through this subtree.<br>3. If the MS does not support any bearer capability, the test case goes through this subtree.                                                                                                                                                                                                                                                                                                                                                                                         |                                      |     |                           |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                           |     |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_5_3_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                           |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/BiBo/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                           |     |          |
| <b>Purpose:</b>             |       | 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.                                                                                                         |                                           |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                           |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                      | V   | 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_NECL_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, 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                           |       | +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(TCV_Setup_mt, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                           |     | 1.       |
| 6                           | body  | L?DL_DatRqCallProc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CallProc(TCV_chTch, CallProced_01(TI_02)) |     | 2.       |
| 7                           |       | L?DL_DatInCcst                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CCStRcv(TCV_chTch, CCStatus_03(TI_01))    | (P) |          |
| 8                           |       | +CCstatuschk_01(TCV_chTch, C_U10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |     |          |
| 9                           |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                           |     |          |
| <b>Detailed Comments:</b>   |       | 1. To enter CC state U10.<br>2. To send an inopportune CALL PROCEEDING message.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                           |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                        |   |                         |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---|-------------------------|
| <b>Test Case Name:</b>      |       | TC_26_5_4_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                        |   |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/BiBo/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                        |   |                         |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                                         |                                                                                                                        |   |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                        |   |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                                                                                   | V | 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                           |       | +Varinit_fixB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                        |   |                         |
| 4                           |       | +StartCellB_1(C_E_suitable, 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)                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                        |   |                         |
| 5                           |       | +CCCH_group_Paging_group(TCV_Ccd0B, TSPX_IMSI)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                        |   |                         |
| 6                           | body  | +Switchcell_A2B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                        |   | 1.                      |
| 7                           |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ChReq_01(C_RACH_B_1, ChRequest_09)                                                                                     |   |                         |
| 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))) |   | 2.                      |
| 10                          |       | L?DL_EstInLupRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LocUp(TCV_ch, LocUpdtReq_04(C_normal_updating, MiTmsi_01))                                                             |   |                         |
| 11                          |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                        |   | Restore Normal default  |
| 12                          |       | L!DL_DatRqLupAcpErr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | LocAcp_inv(TCV_ch, MiImSI_01iei, MiTmsi_01iei, C_MCC_1, C_PLMN_1, C_LAC_2)                                             |   | 3.                      |
| 13                          |       | L!DL_DatRqChRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ChRel(TCV_ch, ChRelease_01)                                                                                            |   |                         |
| 14                          |       | L?DL_RelIn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | DLRelInd_01                                                                                                            |   |                         |
| 15                          |       | START T_dly(5000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                        |   |                         |
| 16                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                        |   |                         |
| 17                          |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                        |   |                         |
| 18                          |       | <b>localtree</b><br>L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)                                                                                 |   | 4.                      |
| 19                          |       | START T_dly(C_T_Wait)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                        |   |                         |
| 20                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                        |   |                         |
| 21                          |       | L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PgReq1(TCV_PgCh, TCV_Pgg,                                                                                              |   | 5.                      |

|                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                    |                                                               |     |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------|---------------------------------------------------------------|-----|--|
| 22                                                                                                                                                                                                                                                                                                                                                                                                                             |  | L?DL_RaInChRq (TCV_Rr :=<br>DL_RaInChRq.msg.ecau_rrf, TCV_Fn :=<br>DL_RaInChRq.fn) | PgReqTp1_05<br>ChReq_01(C_RACH_<br>B_1, ChRequest_01)         | (P) |  |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                             |  | L!DL_UdatRqImmassRej                                                               | ImmAssRej(TCV_agc<br>h,<br>ImmAsgnRej_01(TCV<br>_Rr, TCV_Fn)) |     |  |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                    |                                                               |     |  |
| <ol style="list-style-type: none"> <li>1. MS reselects cell B.</li> <li>2. The cell B assigns C_SDCCH4_B_1 to the MS.</li> <li>3. To send an invalid LOCATION UPDATING ACCEPT message containing duplicated IE's.</li> <li>4. To send a PAGING REQUEST TYPE 1 message containing mobile identity = TMSI of the MS.</li> <li>5. To send a PAGING REQUEST TYPE 1 message containing mobile identity = IMSI of the MS.</li> </ol> |  |                                                                                    |                                                               |     |  |

### Test Case Dynamic Behaviour

| <b>Test Case Name:</b> TC_26_5_5_1_1_1                                                                                                                                                     |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                    |   |          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---|----------|
| <b>Group:</b> GSM_L3_MS_v4180/BiBo/                                                                                                                                                        |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                    |   |          |
| <b>Purpose:</b> 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). |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                    |   |          |
| <b>Default:</b> OtherEventsFail                                                                                                                                                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                    |   |          |
| Nr                                                                                                                                                                                         | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CRef                               | V | Comments |
| 1                                                                                                                                                                                          |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                    |   |          |
| 2                                                                                                                                                                                          |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45,<br>BcchFreqLst_02, BcchFreqLst_03,<br>BcchFreqLst_04, C_Restablishment, C_BCC,<br>C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2) |                                    |   |          |
| 3                                                                                                                                                                                          |       | +PreEstRRConn(TCV_slot, TCV_tsc,<br>TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                    |   |          |
| 4                                                                                                                                                                                          | body  | LIDL_DatRqChRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ChRel(TCV_ch,<br>ChRelease_inv_01) |   | 1.       |
| 5                                                                                                                                                                                          |       | L?DL_Relln                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | DLRellnd_01                        | P |          |
| <b>Detailed Comments:</b> 1. To send an invalid CHANNEL RELEASE message missing mandatory RR cause IE.                                                                                     |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                    |   |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |     |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_5_5_1_1_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/BiBo/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   |     |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                                               |                                   |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CRef                              | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                   |     |          |
| 2                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immss, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, 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  | LIDL_DatRqCphmCmd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CphCmd(TCV_ch, CphModeCmd_inv_01) |     | 1.       |
| 5                           |       | L?DL_DatInRrst                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | RrStatusRcv(TCV_ch, RRStatus_02)  | (P) |          |
| 6                           |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                   |     |          |
| <b>Detailed Comments:</b>   |       | 1. To send an invalid CIPHERING MODE COMMAND missing mandatory ciphering mode setting IE and cipher response IE.                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                   |     |          |



| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                      |     |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_5_5_1_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                      |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/BiBo/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                      |     |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                 |                                                                      |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                      |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                                                 | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                      |     |          |
| 2                           |       | +BasicServiceMT(TSPX_MTBscSvcG, TSPX_MTChRateG)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                      |     |          |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECl_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, 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                           | body  | [TCV_CC]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                      |     | 1.       |
| 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(TCV_Setup_mt, TSPX_TmSlitDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                      |     |          |
| 7                           |       | L!DL_DatRqHoCmd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | HndOvSnd(TCV_chTch, HandOverCmd_inv_02(TSPX_TmSlitDef, TSPX_TscDef)) |     | 2.       |
| 8                           |       | L?DL_DatInRrst                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | RrStatusRcv(TCV_chTch, RRStatus_02)                                  | (P) |          |
| 9                           |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                      |     |          |
| 10                          |       | [NOT TCV_CC]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                      |     | 3.       |
| 11                          |       | +PreEstRRConn(TCV_slot, TCV_tsc, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                      |     |          |
| 12                          |       | L!DL_DatRqHoCmd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | HndOvSnd(TCV_ch, HandOverCmd_inv_02(TSPX_TmSlitDef, TSPX_TscDef))    |     | 4.       |
| 13                          |       | L?DL_DatInRrst                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | RrStatusRcv(TCV_ch, RRStatus_02)                                     | (P) |          |
| 14                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                      |     |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. If the MS supports at least one bearer capability, the test case goes through this subtree.</li> <li>2. To send an invalid HANDOVER COMMAND message containing comprehension requires IE on the channel TCV_chTch.</li> <li>3. The test case goes through this subtree if the MS does not support any bearer capability.</li> <li>4. To send an invalid HANDOVER COMMAND message containing comprehension requires IE on the channel TCV_ch.</li> </ol>                                                                   |                                                                      |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                       |     |          |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_5_5_2_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                       |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/BiBo/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                       |     |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                    |                                       |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                       |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CRef                                  | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |     |          |
| 2                           |       | +BasicServiceMT(TSPX_MTBscSvcH,<br>TSPX_MTChRateH)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |     |          |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                       |     |          |
| 4                           |       | +CCConfigTCH(TSPX_TCHHSubDef, C_Ass,<br>TSPX_TmSlitDef, TSPX_TscDef, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>TCV_ChMod.mode, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                                               |                                       |     |          |
| 5                           |       | +PreEnterCCstateU10(TCV_Setup_mt,<br>TSPX_TmSlitDef, TSPX_TscDef,<br>TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |     |          |
| 6                           | body  | L!DL_DatRqldRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | IDReq(TCV_chTch,<br>IDRequest_inv_02) |     | 1.       |
| 7                           |       | L?DL_DatInMmst                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | MmSt(MMstatus_02)                     | (P) |          |
| 8                           |       | +CCstatuschk_02(TCV_chTch, C_U10,<br>TI_02, TI_01)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |     | 2.       |
| 9                           |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |     |          |
| <b>Detailed Comments:</b>   |       | 1. To send an invalid IDENTITY REQUEST message containing the identity type IE = reserved value.<br>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 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                      |     |          |
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| <b>Test Case Name:</b>      |       | TC_26_5_5_2_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/BiBo/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      |     |          |
| <b>Purpose:</b>             |       | 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.                                                                                                          |                                      |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                      |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CRef                                 | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                      |     |          |
| 2                           |       | [TSPC_MTsvc]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                      |     |          |
| 3                           |       | +BasicServiceMT(TSPX_MTBscSvcF,<br>TSPX_MTChRateF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                      |     |          |
| 4                           |       | +maintree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                      |     |          |
| 5                           |       | [NOT TSPC_MTsvc]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                      |     |          |
| 6                           |       | +maintree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                      |     |          |
| 7                           |       | <b>maintree</b><br>+IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Imm, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1,<br>C_NECL_0, C_ATT_0, TimingAdv(0), C_BABR_0,<br>C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA,<br>C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01,<br>CellChDes_Omit, CellChDes_Omit,<br>C_CellReselectHys12, C_MaxPwrLvlG,<br>C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi,<br>TSPX_SDCCH4SubDef, TSPX_CKSNDDef,<br>TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI,<br>C_Test_nfh, C_NCCP_2) |                                      |     |          |
| 8                           |       | +PreEstRRConn(TCV_slot, TCV_tsc, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      |     |          |
| 9                           | body  | LIDL_DatRqIdRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | IDReq(TCV_ch,<br>IDRequest_inv_02)   |     | 1.       |
| 10                          |       | L?DL_DatInMmst                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MMSt(MMstatus_02)                    | (P) |          |
| 11                          |       | [TSPC_MTsvc]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                      |     | 2.       |
| 12                          |       | +Authentication(TCV_ch, TSPX_CKSNDDef,<br>TSPX_RANDDef)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                      |     |          |
| 13                          |       | +Cipherring_on(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                      |     |          |
| 14                          |       | LIDL_DatRqSetup                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SetupSnd(TCV_ch,<br>TCV_Setup_mt)    |     |          |
| 15                          |       | L?DL_DatInCallCo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CallCfm(CallConfirm_01(TI_01))       | (P) |          |
| 16                          |       | +PostLinkRelEnd(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                      |     |          |
| 17                          |       | [NOT TSPC_MTsvc]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                      |     | 3.       |
| 18                          |       | LIDL_DatRqSetup                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SetupSnd(TCV_ch,<br>Setup_01(TI_02)) |     |          |
| 19                          |       | L?DL_DatInRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | RelComRcv(Release<br>Cmp_03(TI_01))  | (P) |          |
| 20                          |       | +PostLinkRelEnd(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                      |     |          |
| <b>Detailed Comments:</b>   |       | <p>1. To send an invalid IDENTITY REQUEST message in which the identity type IE contains reserved value on the channel C_SDCCH4_A_1.</p> <p>2. This subtree is for the MS which supports at least one bearer capability.</p> <p>3. This subtree is for the MS which does not support any bearer capability.</p>                                                                                                                                                                                                                                                                                                              |                                      |     |          |

| Test Case Dynamic Behaviour                                                                                                                                                                                                                                                                                                                                                                                              |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                        |   |                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---|-------------------------|
| <b>Test Case Name:</b> TC_26_5_5_2_3                                                                                                                                                                                                                                                                                                                                                                                     |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                        |   |                         |
| <b>Group:</b> GSM_L3_MS_v4180/BiBo/                                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                        |   |                         |
| <b>Purpose:</b> 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. |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                        |   |                         |
| <b>Default:</b> OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                          |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                        |   |                         |
| Nr                                                                                                                                                                                                                                                                                                                                                                                                                       | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CRef                                                                                                                   | V | 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_Reestablishment, 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                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +Varinit_fixB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                        |   |                         |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +StartCellB_1(C_E_suitable, 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_noReestablishment, C_BCC, C_NCC)                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                        |   |                         |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +CCCH_group_Paging_group(TCV_Ccd0B, TSPX_IMSI)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                        |   |                         |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                        | body  | +localbody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                        |   |                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          |       | <b>localbody</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                        |   |                         |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +Switchcell_A2B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                        |   | 1.                      |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                        |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ChReq_01(C_RACH_B_1, ChRequest_09)                                                                                     |   | To match ChReq retrans. |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                        |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                        |   |                         |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                       |       | LIDL_UdatRqImmass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0))) |   |                         |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                       |       | L?DL_EstInLupRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | LocUp(TCV_ch, LocUpdtReq_04(C_normal_updating, MiTmsi_01))                                                             |   |                         |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                       |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                        |   | Restore Normal default  |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                       |       | L!DL_DatRqLupAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LocAcp(TCV_ch, LocUpdtAcp_01(Mi_01, C_MCC_1, C_PLMN_1, C_LAC_2))                                                       |   | 2.                      |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                       |       | L?DL_DatInMmst                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MMSst(MMstatus_02)                                                                                                     |   |                         |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                       |       | L?DL_Relln                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | DLRellnd_01                                                                                                            |   |                         |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                       |       | +ltree_continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                        |   |                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                          |       | <b>ltree_continue</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                        |   |                         |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                       |       | L?DL_RaInChRq(TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ChReq(ChRequest_02)                                                                                                    |   | To match ChReq retrans. |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                       |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                        |   |                         |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                       |       | LIDL_UdatRqImmass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ImmAss(TCV_agch, ImmAsgn_01Def(TCV                                                                                     |   |                         |

|    |                           |                                                                                                                                                                             |                        |
|----|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 20 | L?DL_EstInLupRq           | _Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(0))<br>LocUp(TCV_ch,<br>LocUpdtReq_04(C_n<br>ormal_updating,<br>Milmsi_01)) |                        |
| 21 | ACTIVATE(OtherEventsFail) |                                                                                                                                                                             | Restore Normal default |
| 22 | L!DL_DatRqLupAcp          | LocAcp(TCV_ch,<br>LocUpdtAcp_01(MiT<br>msi_01iei, C_MCC_1,<br>C_PLMN_1,<br>C_LAC_2))                                                                                        | 3.                     |
| 23 | L?DL_DatInTmsireCom       | TmsiReallocCmp(TC<br>V_ch)                                                                                                                                                  |                        |
| 24 | L!DL_DatRqChRel           | ChRel(TCV_ch,<br>ChRelease_01)                                                                                                                                              | (P)                    |
| 25 | L?DL_RelIn                | DLRelInd_01                                                                                                                                                                 |                        |

**Detailed Comments:**

1. To lower the RF level of cell A until the MS selects cell B.
2. To send a LOCATION UPDATING ACCEPT message containing comprehension required IE.
3. To send a LOCATION UPDATING ACCEPT message containing location area identification = cell B and mobile identity = TMSI.

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |     |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_5_5_3_1_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/BiBo/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                            |     |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                                                                   |                                            |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CRef                                       | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |     |          |
| 2                           |       | +BasicServiceMT(TSPX_MTBscSvcl, TSPX_MTChRateI)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |     |          |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immss, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, 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(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(TCV_Setup_mt, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                            |     |          |
| 6                           | body  | L!DL_DatRqDisc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Disc_inv(TCV_chTch, Disconn_inv_02(TI_02)) |     | 1.       |
| 7                           |       | L?DL_DatInRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ReleaseRcv(Release_01(TI_01))              | (P) |          |
| 8                           |       | L!DL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | RelComSnd(TCV_chTch, ReleaseCmp_02(TI_02)) |     |          |
| 9                           |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                            |     |          |
| <b>Detailed Comments:</b>   |       | 1. To send an invalid DISCONNECT message in which the mandatory cause IE is missing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                            |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                |     |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_5_5_3_1_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/BiBo/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |     |          |
| <b>Purpose:</b>             |       | 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).                                                                                                                                                                                 |                                                |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CRef                                           | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                |     |          |
| 2                           |       | +BasicServiceMT(TSPX_MTBscSvcJ, TSPX_MTChRateJ)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                |     |          |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, 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                           |       | +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(TCV_Setup_mt, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                |     |          |
| 6                           | body  | L!DL_DatRqCcst                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CCStSnd(TCV_chTch                              |     | 1.       |
| 7                           |       | L?DL_DatInCcst                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | , CCStatus_inv_01(TI_02))<br>CCStRcv(TCV_chTch | (P) |          |
| 8                           |       | +CCstatuschk_01(TCV_chTch, C_U10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | , CCStatus_04(TI_01))                          |     |          |
| 9                           |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                |     |          |
| <b>Detailed Comments:</b>   |       | 1. To send an invalid STATUS message in which the mandatory cause IE and call state IE are missing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                |     |          |
|-----------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_5_5_3_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/BiBo/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                |     |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                         |                                                |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CRef                                           | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |     |          |
| 2                           |       | +BasicServiceMO(TSPX_MOBscSvcG,<br>TSPX_MOChRateG)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |     |          |
| 3                           |       | +IdleUpdated(C_E_default, C_Cella, C_SCH_A,<br>C_BCCH_A_1, C_Immss, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                                |     |          |
| 4                           |       | +PreEnterCCstateU3(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                |     |          |
| 5                           | body  | LIDL_DatRqConnErr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Conn_invSnd(TCV_ch,<br>Connect_inv_01(TCV_TI)) |     | 1.       |
| 6                           |       | L?DL_DatInCcst                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CCStRcv(TCV_ch,<br>CCStatus_04(TCV_TI0))       | (P) | 2.       |
| 7                           |       | +CCstatuschk_03(C_U3, TCV_TI)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                |     | 3.       |
| 8                           |       | LIDL_DatRqChRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ChRel(TCV_ch,<br>ChRelease_01)                 |     |          |
| 9                           |       | L?DL_Relln                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DLRelInd_01                                    |     |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To send an invalid CONNECT message containing comprehension required IE.</li> <li>2. The expected STATUS message received.</li> <li>3. To check whether the MS is still in the state U3.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                     |                                                |     |          |



| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                        |     |                         |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| <b>Test Case Name:</b>      |       | TC_26_5_6_1_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                        |     |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/BiBo/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                        |     |                         |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                            |                                                                                                                        |     |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                        |     |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CRef                                                                                                                   | V   | Comments                |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                        |     |                         |
| 2                           |       | +IdleUpdated(C_E_suitable, C_CellB, C_SCH_B, C_BCCH_B_1, C_Immss, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_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_noReestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TSPX_IMSI, C_Test_nfh, C_NCCP_2) |                                                                                                                        |     | 1.                      |
| 3                           |       | +Varinit_fixA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                        |     |                         |
| 4                           |       | +StartCellA( C_E_default, C_Immss, 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_noReestablishment)                                                                                                                                                                                                                                                                                                       |                                                                                                                        |     |                         |
| 5                           |       | +ltree_body                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                        |     |                         |
|                             |       | <b>ltree_body</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                        |     |                         |
| 6                           |       | +Switchcell_B2A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                        |     |                         |
| 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                           |       | LIDL_UdatRqImmss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0))) |     |                         |
| 10                          |       | L?DL_EstInLupRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | LocUp(TCV_ch, LocUpdtReq_04(C_normal_updating, MiTmsi_01))                                                             |     | 2.                      |
| 11                          |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                        |     | Restore Normal default  |
| 12                          |       | LIDL_DatRqLupAcpErr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | LocAcp_inv(TCV_ch, Mi_02, MiTmsi_02iei, C_MCC_1, C_PLMN_1, C_LAC_1)                                                    |     | 3.                      |
| 13                          |       | L?DL_DatInTmsireCom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | TmsiReallocCmp(TCV_ch)                                                                                                 | (P) |                         |
| 14                          |       | +local_postamble                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                        |     |                         |
| 15                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                        |     |                         |
|                             |       | <b>local_postamble</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                        |     |                         |
| 16                          |       | +TmsiReallocation(MiTmsi_01, C_MCC_1, C_PLMN_1, C_LAC_1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                        |     | 4.                      |
| <b>Detailed Comments:</b>   |       | 1. The MS listen to cell B.<br>2. The mobile identity is TMSI of the MS.<br>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 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                        |     |                         |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| <b>Test Case Name:</b>      |       | TC_26_5_6_1_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                        |     |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/BiBo/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                        |     |                         |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                            |                                                                                                                        |     |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                        |     |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CRef                                                                                                                   | V   | Comments                |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                        |     |                         |
| 2                           |       | +IdleUpdated(C_E_suitable, C_CellB, C_SCH_B, C_BCCH_B_1, C_Immss, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_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_MaxPwrLvlID, BcchFreqLst_01, BcchFreqLst_01, BcchFreqLst_48, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TSPX_IMSI, C_Test_nfh, C_NCCP_2) |                                                                                                                        |     | 1.                      |
| 3                           |       | +Varinit_fixA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                        |     |                         |
| 4                           |       | +StartCellA( C_E_default, C_Immss, 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)                                                                                                                                                                                                                                                                                                        |                                                                                                                        |     |                         |
| 5                           |       | +ltree_body                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                        |     |                         |
|                             |       | <b>ltree_body</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                        |     |                         |
| 6                           |       | +Switchcell_B2A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                        |     |                         |
| 7                           |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ChReq(ChRequest_02)                                                                                                    |     |                         |
| 8                           |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                        |     | To match ChReq retrans. |
| 9                           |       | LIDL_UdatRqImmss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0))) |     |                         |
| 10                          |       | L?DL_EstInLupRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | LocUp(TCV_ch, LocUpdtReq_04(C_normal_updating, MiTmsi_01))                                                             |     | 2.                      |
| 11                          |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                        |     | Restore Normal default  |
| 12                          |       | LIDL_DatRqLupAcPErr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | LocAcP_inv(TCV_ch, Mi_06, MiTmsi_02iei, C_MCC_1, C_PLMN_1, C_LAC_1)                                                    |     | 3.                      |
| 13                          |       | L?DL_DatInTmsireCom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | TmsiReallocCmp(TCV_ch)                                                                                                 | (P) |                         |
| 14                          |       | +local_postamble                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                        |     |                         |
| 15                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                        |     |                         |
|                             |       | <b>local_postamble</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                        |     |                         |
| 16                          |       | +TmsiReallocation(MiTmsi_01, C_MCC_1, C_PLMN_1, C_LAC_1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                        |     | 4.                      |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. The MS listen to cell B.</li> <li>2. The mobile identity is TMSI of the MS.</li> <li>3. To send a LOCATION UPDATING ACCEPT message containing unknown IE and new TMSI.</li> </ol>                                                                                                                                                                                                                                                                                                                                              |                                                                                                                        |     |                         |

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:** GSM\_L3\_MS\_v4180/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.  
**Default:** OtherEventsFail

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CRef                                               | V | Comments |
|----|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|---|----------|
| 1  |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                    |   |          |
| 2  |       | +BasicServiceMO(TSPX_MOBscSvcF,<br>TSPX_MOChRateF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                    |   |          |
| 3  |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                                    |   |          |
| 4  |       | +PreEnterCCstateU1(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                    |   |          |
| 5  | body  | L!DL_DatRqCallProc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CallProc(TCV_ch,<br>CallProced_inv_02(T<br>CV_TI)) |   | 1.       |
| 6  |       | +CCstatuschk_03(C_U3, TCV_TI)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                    |   | 2.       |
| 7  |       | L!DL_DatRqChRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ChRel(TCV_ch,<br>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 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                           |     |          |
|-----------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_5_6_2_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                           |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/BiBo/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                           |     |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                            |                                                           |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                           |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CRef                                                      | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                           |     |          |
| 2                           |       | +BasicServiceMT(TSPX_MTBscSvcJ,<br>TSPX_MTChRateJ)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                           |     |          |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECL_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                                           |     |          |
| 4                           |       | +CCConfigTCH(TSPX_TCHHSubDef, C_Ass,<br>TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>TCV_ChMod.mode, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                                               |                                                           |     |          |
| 5                           |       | +PreEnterCCstateU10(TCV_Setup_mt,<br>TSPX_TmSltDef, TSPX_TscDef,<br>TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                           |     | 1.       |
| 6                           | body  | L!DL_DatRqDiscErr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Disc_inv_err(TCV_ch<br>Tch,<br>Disconn_inv_03(TI_0<br>2)) |     | 2.       |
| 7                           |       | L?DL_DatInRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ReleaseRcv(Release<br>_10(TI_01))                         | (P) |          |
| 8                           |       | +CCstatuschk_01(TCV_chTch, C_U19)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                           |     |          |
| 9                           |       | L!DL_DatRqChRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ChRel(TCV_chTch,<br>ChRelease_01)                         |     |          |
| 10                          |       | L?DL_RelIn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DLRelInd_01                                               |     |          |
| <b>Detailed Comments:</b>   |       | 1. To enter CC state U10.<br>2. To send an invalid DISCONNECT message containing optional unknown IE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                           |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                 |     |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_5_6_2_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/BiBo/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                 |     |          |
| <b>Purpose:</b>             |       | 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                                                                                                                                                                                                                                                   |                                                 |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                 |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                            | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                 |     |          |
| 2                           |       | +BasicServiceMT(TSPX_MTBscSvcA, TSPX_MTChRateA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                 |     |          |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_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                           |       | +PreEnterCCstateU10(TCV_Setup_mt, TSPX_TmSlitDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                 | 1.  |          |
| 6                           | body  | (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)) | 2.  |          |
| 9                           |       | L?DL_DatInRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | RelComRcv(ReleaseCmp_03(TI_01))                 | (P) |          |
| 10                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                 |     |          |
| <b>Detailed Comments:</b>   |       | 1. To enter CC state U10.<br>2. To send an invalid RELEASE REQUEST message containing unknown optional IE.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                 |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                          |     |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_5_6_2_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                          |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/BiBo/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                          |     |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                          |                                                                          |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                          |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                                     | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                          |     |          |
| 2                           |       | +BasicServiceMT(TSPX_MTBscSvcB, TSPX_MTChRateB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                          |     |          |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECL_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, 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(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(TCV_Setup_mt, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                          |     |          |
| 6                           | body  | L!DL_DatRqDisc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DiscSnd(TCV_chTch, DisconnS(TI_02, Cause_01, ProgInd_omit, UuInfo_omit)) |     |          |
| 7                           |       | L?DL_DatInRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ReleaseRcv(Release_02)                                                   |     |          |
| 8                           |       | L!DL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | RelComSnd(TCV_chTch, ReleaseCmp_inv_02(TI_02))                           |     | 1.       |
| 9                           |       | L?DL_Relln                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | DLRellnd_01                                                              | (P) |          |
| <b>Detailed Comments:</b>   |       | 1. To send an invalid RELEASE COMPLETE message containing unknown optional IE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                          |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                       |     |                                    |
|-----------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----|------------------------------------|
| <b>Test Case Name:</b>      |       | TC_26_5_6_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |     |                                    |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/BiBo/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                       |     |                                    |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                                                                           |                                       |     |                                    |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                       |     |                                    |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CRef                                  | V   | 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_12, CellChDes_12d, 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_fh, C_NCCP_2) |                                       |     |                                    |
| 4                           |       | +CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitNotZero1, 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_01, TCV_CphKey))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                       |     |                                    |
| 7                           | body  | L!DL_DatRqCphmCmdErr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CphCmd_inv(TCV_ch, CphModeCmd_inv_03) |     | 1.                                 |
| 8                           |       | L?DL_DatInCphmCom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CphCom(CphModeCmp_01)                 | (P) |                                    |
| 9                           |       | +AssCmdGen_fh(C_Full, TSPX_TmSlitNotZero1, TSPX_TscDef, TSPX_TCHHSubDef, 7, 7, '000000'B, '000000'B, FrqI_02, FrqI_02, CellChDes_12, CellChDes_12d, ChMod_sign_iei, MobilAllc_02, MobilAllc_02, CphMod_omit)                                                                                                                                                                                                                                                                                                                                                      |                                       |     | With power level 7, 1st unknown IE |
| 10                          |       | (TCV_AssCmd.ch2d_at := UnknownIE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |     | 2nd unknown IE                     |
| 11                          |       | +AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                       |     | 2.                                 |
| 12                          |       | L!DL_DatRqChRelErr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ChRel_inv(TCV_chTch)                  |     | 3.                                 |
| 13                          |       | L?DL_RelIn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DLRelInd_01                           | (P) |                                    |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To send a CIPHERING MODE COMMAND message containing an unknown IE.</li> <li>2. To send an ASSIGNMENT COMMAND message containing 2 unknown IEs.</li> <li>3. To send a CHANNEL RELEASE message containing an unknown IE.</li> </ol>                                                                                                                                                                                                                                                                                       |                                       |     |                                    |



| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                    |     |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_5_7_1_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/BiBo/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                    |     |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                 |                                                    |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                    |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CRef                                               | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                    |     |          |
| 2                           |       | +IdleUpdated(C_E_default, C_Cella, C_SCH_A, C_BCCH_A_1, C_Immss, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, 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  | LIDL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_inv_04)         |     | 1.       |
| 4                           |       | L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ChReq(ChRequest_17)                                | (P) |          |
| 5                           |       | LIDL_UdatRqImmssRej                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rr, TCV_Fn)) |     |          |
| <b>Detailed Comments:</b>   |       | 1. To send a PAGING REQUEST TYPE1 message containing rest octets which are not all '2B'O.                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                    |     |          |

| Test Case Dynamic Behaviour                                                                                                                                                                                                                                                                                                                                                                                                                 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                    |     |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-----|----------|
| <b>Test Case Name:</b> TC_26_5_7_1_2                                                                                                                                                                                                                                                                                                                                                                                                        |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                    |     |          |
| <b>Group:</b> GSM_L3_MS_v4180/BiBo/                                                                                                                                                                                                                                                                                                                                                                                                         |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                    |     |          |
| <b>Purpose:</b> 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 S13 rest octets IE and S14 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. |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                    |     |          |
| <b>Default:</b> OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                    |     |          |
| Nr                                                                                                                                                                                                                                                                                                                                                                                                                                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                               | V   | 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                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | +modifysysinfo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    |     |          |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                           | body  | START T_dly(30000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                    |     |          |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn) CANCEL T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ChReq(ChRequest_09)                                | (P) |          |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | LIDL_UdatRqImmAssRej                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ImmAssRej(TCV_agch, ImmAsgnRej_01(TCV_Rr, TCV_Fn)) |     |          |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    | F   |          |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | <b>modifysysinfo</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                    |     |          |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | [TSPC_PGSM OR TSPC_EGSM]<br>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<br>(DL_UdatRqSysinfo3.msg.csp := CellSelPara_04)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SysInfo3_inv_01(C_MCC_1, C_PLMN_1, C_LAC_2)        |     | 1.       |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                          |       | LIDL_UdatRqSysinfo4<br>(DL_UdatRqSysinfo4.msg.csp := CellSelPara_04)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SysInfo4_inv_01(C_MCC_1, C_PLMN_1, C_LAC_2)        |     |          |
| <b>Detailed Comments:</b> 1. To send modified SYSTEM INFORMATION TYPE 3 and TYPE 4.                                                                                                                                                                                                                                                                                                                                                         |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                    |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                       |     |                            |
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| <b>Test Case Name:</b>      |       | TC_26_5_7_1_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                       |     |                            |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/BiBo/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                       |     |                            |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                    |                                                                                                       |     |                            |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                       |     |                            |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CRef                                                                                                  | V   | Comments                   |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                       |     |                            |
| 2                           |       | +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_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2) |                                                                                                       |     |                            |
| 3                           | body  | +localtree1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                       |     |                            |
|                             |       | <b>localtree1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                       |     |                            |
| 4                           |       | L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)                                                                |     |                            |
| 5                           |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ChReq(ChRequest_17)                                                                                   |     |                            |
| 6                           |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                       |     |                            |
| 7                           |       | L!DL_UdatRqImm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ImmAss(TCV_agch, ImmAsgn_inv_04(TCV_Rr, TCV_Fn, TCV_slot, TCV_tsc, TimingAdv_inv, TCV_chdescr_arfcn)) |     | To match ChReq retrans. 1. |
| 8                           |       | L?DL_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PagingRes(PagingRes_01)                                                                               | (P) |                            |
| 9                           |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                       |     | Restore Normal default     |
| 10                          |       | L!DL_DatRqChRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ChRel(TCV_ch, ChRelease_01)                                                                           |     |                            |
| 11                          |       | L?DL_RelIn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DLRelInd_01                                                                                           | (P) |                            |
| 12                          |       | START T_dly(10000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                       |     |                            |
| 13                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                       |     |                            |
| 14                          |       | +localtree2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                       |     |                            |
|                             |       | <b>localtree2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                       |     |                            |
| 15                          |       | L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)                                                                |     |                            |
| 16                          |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ChReq(ChRequest_17)                                                                                   |     |                            |
| 17                          |       | L!DL_UdatRqImmRej                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ImmAssRej(TCV_agch, ImmAsgnRej_inv_02(TCV_Rr, TCV_Fn))                                                |     | 2.                         |
| 18                          |       | START T_dly(6000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                       |     |                            |
| 19                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                       |     |                            |
| 20                          |       | L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)                                                                |     |                            |
| 21                          |       | L?DL_RaInChRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ChReq(ChRequest_17)                                                                                   | P   |                            |
| <b>Detailed Comments:</b>   |       | 1. To send an invalid IMMEDIATE ASSIGNMENT message containing arbitrary spare bits.<br>2. To send an invalid IMMEDIATE ASSIGNMENT REJECT message containing arbitrary spare bits.                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                       |     |                            |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                   |   |          |
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| <b>Test Case Name:</b>      |       | TC_26_5_7_1_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/BiBo/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                   |   |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                                                                              |                                   |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                   |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CRef                              | V | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                   |   |          |
| 2                           |       | +BasicServiceMT(TSPX_MTBscSvcC,<br>TSPX_MTChRateC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                   |   |          |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                   |   |          |
| 4                           |       | +CCConfigTCH(TSPX_TCHHSubDef, C_Ass,<br>TSPX_TmSlitDef, TSPX_TscDef, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>TCV_ChMod.mode, FreqTCHa1, FreqTCHa2,<br>C_Noarfcn, C_Noarfcn)                                                                                                                                                                                                                                                                                                                                                                                                                            |                                   |   | 1.       |
| 5                           |       | +PreEstRRConn(TCV_slot, TCV_tsc,<br>TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                   |   |          |
| 6                           | body  | +Cipherring_on(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                   |   |          |
| 7                           |       | (TCV_Setup_mt.sig := Signal_01)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                   |   |          |
| 8                           |       | LIDL_DatRqSetup                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SetupSnd(TCV_ch,<br>TCV_Setup_mt) |   | 2.       |
| 9                           |       | L?DL_DatInCallCo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CallCfm(CallConfirm_01(TI_01))    |   |          |
| 10                          |       | L?DL_DatInAlert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | AlertRcv(AlertingInd_01(TI_01))   |   |          |
| 11                          |       | (TCV_Null := OO_HookOff())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                   |   |          |
| 12                          |       | +localtree1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                   |   |          |
| 13                          |       | L?DL_DatInConn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ConnRcv(Connect_01(TI_01))        |   |          |
| 14                          |       | +localtree1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                   |   |          |
| 15                          |       | <b>localtree1</b><br>+AssCmdGen_fh(TCV_ChRate, TSPX_TmSlitDef,<br>TSPX_TscDef, TSPX_TCHHSubDef, 7, 3, '000000'B,<br>'111111'B, Frql_omit, Frql_omit, CellChDes_01,<br>CellChDes_01d, TCV_ChMod, MobilAlic_r03,<br>MobilAlic_r03, CphMod_04iei(TSPX_CphAlgE))                                                                                                                                                                                                                                                                                                                                                       |                                   |   | 3.       |
| 16                          |       | +AssCh_complete(TCV_ch, TCV_chTch,<br>TCV_AssCmd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                   |   |          |
| 17                          |       | +PostLinkRelEnd(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                   |   | 4.       |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To setup a physical channel as hopping traffic channel.</li> <li>2. To send SETUP message indicating full rate channel and containing signal IE.</li> <li>3. To send a modified ASSIGNMENT COMMAND containing randomly chosen spare bits.</li> <li>4. The assignment procedure succeeds.</li> </ol>                                                                                                                                                                                                                                                                      |                                   |   |          |

| <b>Test Case Dynamic Behaviour</b> |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                 |     |          |
|------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----|----------|
| <b>Test Case Name:</b>             |       | TC_26_5_7_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                 |     |          |
| <b>Group:</b>                      |       | GSM_L3_MS_v4180/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>Default:</b>                    |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                 |     |          |
| Nr                                 | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                            | V   | 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)          |     | 1.       |
| 5                                  |       | L?DL_DatInAuthRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | AuthRes(AuthResponse)           | (P) |          |
| 6                                  |       | L!DL_DatRqIdRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | IDReq(TCV_ch, IDRequest_inv_03) |     | 2.       |
| 7                                  |       | L?DL_DatInIdRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | IDRes(IDResponse_02)            | (P) |          |
| 8                                  |       | +PostLinkRelEnd(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 |     |          |
| <b>Detailed Comments:</b>          |       | <ol style="list-style-type: none"> <li>1. To send a modified AUTHENTICATION REQUEST message containing arbitrary spare bits.</li> <li>2. To send a modified IDENTITY REQUEST message containing arbitrary spare bits.</li> </ol>                                                                                                                                                                                                                                                                                                                                      |                                 |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                         |     |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_5_7_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                         |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/BiBo/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                         |     |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                            |                                                         |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                         |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                                    | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                         |     |          |
| 2                           |       | +BasicServiceMT(TSPX_MTBScSvcl, 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_CKSNDf, 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  | L!DL_DatRqAuthRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | AuthReq(TCV_ch, AuthRequest(TSPX_CKSNDf, TSPX_RANDDef)) |     |          |
| 7                           |       | L?DL_DatInAuthRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | AuthRes(AuthResponse)                                   |     |          |
| 8                           |       | +Cipherring_on(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                         |     |          |
| 9                           |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                         |     |          |
| 10                          |       | <b>localtree</b><br>(TCV_Setup_mt.sig := Signal_01, TCV_Setup_mt.cgpn := Cgpn_01, TCV_Setup_mt.cgps := Cgps_01, TCV_Setup_mt.cdpm := Cdpm_01, TCV_Setup_mt.cdps := Cdps_01)                                                                                                                                                                                                                                                                                                                                                                                         |                                                         |     |          |
| 11                          |       | L!DL_DatRqSetup                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | SetupSnd(TCV_ch, Setup_inv_02(TI_02))                   | 1.  |          |
| 12                          |       | 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))                              |     |          |
| 16                          |       | +localtree1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                         |     |          |
| 17                          |       | L?DL_DatInConn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ConnRcv(Connect_01(TI_01))                              |     |          |
| 18                          |       | +localtree1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                         |     |          |
| 19                          |       | <b>localtree1</b><br>+AssCmdGen(TCV_cellid, C_Full, TSPX_TmSlitDef, TSPX_TscDef, TSPX_TCHHSubDef)                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                         |     |          |
| 20                          |       | +AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                         |     |          |
| 21                          |       | L!DL_DatRqConnAck                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ConnAckSnd(TCV_chTch, ConnectAck_01(TI_02))             |     |          |

|                                                                                              |                                   |                                                   |    |
|----------------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------|----|
| 22                                                                                           | LIDL_DatRqDisc                    | Disc_inv(TCV_chTch,<br>Disconn_inv_04(TI_0<br>2)) |    |
| 23                                                                                           | +CCstatuschk_01(TCV_chTch, C_U12) |                                                   | 2. |
| 24                                                                                           | L!DL_DatRqRel                     | ReleaseSnd(TCV_ch<br>Tch,<br>Release_03(TI_02))   |    |
| 25                                                                                           | L?DL_DatInRelCmp                  | RelComRcv(Release<br>Cmp_03(TI_01))               |    |
| 26                                                                                           | +PostMainLinkRel(TCV_chTch)       |                                                   |    |
| <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 Group RR

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                        |   |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_6_1_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                        |   |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        |   |          |
| <b>Default:</b>             |       | OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                        |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CRef                                   | V | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                        |   |          |
| 2                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_1, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                        |   | 1.       |
| 3                           | body  | +testSdcch8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |   |          |
| 4                           |       | [TCV_CC AND(NOT TSPC_DualRate)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                        |   |          |
| 5                           |       | +testTchf                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                        |   |          |
| 6                           |       | [TSPC_DualRate]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                        |   |          |
| 7                           |       | +testTchh                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                        |   |          |
| 8                           |       | +testTchf                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                        |   |          |
|                             |       | <b>testSdcch8</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        |   |          |
| 9                           |       | +SDCCH8_A_1_nociph(TSPX_SDCCH8SubA, C_Immass, TSPX_TmSltDef, TSPX_TscDef, ChMod_sign, FreqTCH(C_arfcn_tchA), FreqTCH(C_arfcn_tchAd), TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                     |                                        |   | 2.       |
| 10                          |       | (TCV_Tchtype := INT_TO_BIT((8 + BIT_TO_INT(TSPX_SDCCH8SubA)), 5))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        |   |          |
| 11                          |       | +channelass(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                        |   | 3.       |
|                             |       | <b>testTchf</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                        |   |          |
| 12                          |       | +FullRateCh_A_1_nociph(C_Immass, TSPX_TmSltDef, TSPX_TscDef, ChMod_sign, FreqTCH(C_arfcn_tchA), FreqTCH(C_arfcn_tchAd), TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                  |                                        |   | 4.       |
| 13                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                        |   |          |
| 14                          |       | (TCV_Tchtype := '00001'B)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                        |   |          |
| 15                          |       | +channelass(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |   | 5.       |
|                             |       | <b>testTchh</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                        |   |          |
| 16                          |       | +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_1nonComb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                   |                                        |   | 6.       |
| 17                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                        |   |          |
| 18                          |       | (TCV_Tchtype := INT_TO_BIT((2 + BIT_TO_INT(TSPX_TCHHSubA)), 5))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                        |   |          |
| 19                          |       | +channelass(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                        |   | 7.       |
|                             |       | <b>channelass(ch: LOGICCH)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                        |   |          |
| 20                          |       | L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01) |   |          |
| 21                          |       | L?DL_RaInChRq(TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn) START T_dly(C_T_Wait)                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ChReq(ChRequest_1 7)                   |   |          |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                      |                                                                                                                                  |     |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------|----------------------------------------------------------------------------------------------------------------------------------|-----|--|
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | LIDL_UdatRqImm       | ImmAss(TCV_agch, ImmAsgn_r(ChDescr p_nfh(TCV_Tchtype, TSPX_TmSltDef, TSPX_TscDef, C_arfcn_tchA), TCV_Rr, TCV_Fn, TimingAdv(30))) |     |  |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | L?DL_EstInPgRes      | PgRes(ch, PagingRes_01)                                                                                                          | (P) |  |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | +PostMainLinkRel(ch) |                                                                                                                                  |     |  |
| <p><b>Detailed Comments:</b></p> <ol style="list-style-type: none"> <li>1. To setup a physical channel as non-combined ccch/sdcch, 5 slots for Tx-int, 1 retransmission</li> <li>2. To setup a physical channel as SDCCH8.</li> <li>3. To assign a SDCCH8 channel.</li> <li>4. To setup a physical channel as full rate traffic channel.</li> <li>5. To assign a full rate channel.</li> <li>6. To setup a physical channel as half rate traffic channel.</li> <li>7. To assign a half rate channel.</li> </ol> |  |                      |                                                                                                                                  |     |  |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                              |   |          |
|-----------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_6_1_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                              |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                              |   |          |
| <b>Purpose:</b>             |       | 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. |                                                                                                                              |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                              |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | CRef                                                                                                                         | V | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                              |   |          |
| 2                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(TSPX_TimadvB), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noReestablishment, 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)                |                                                                                                                              |   | 1.       |
| 3                           | body  | +firstPart                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                              |   |          |
| 4                           |       | +secondPart                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                              |   |          |
| 5                           |       | +PreEnterIdleState_r02(C_Immass, TCV_slot, TCV_tsc, C_TxInt_5, C_Max_7, C_SlotNU, C_SlotNU, C_SlotNU, TimingAdv(TSPX_TimadvB), C_ATT_0, C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_1, C_LAC_1)                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                              |   | 2.       |
| 6                           |       | +SDCCH8_A_1_nociph(TSPX_SDCCH8SubA, C_Immass, TSPX_TmSltDef, TSPX_TscDef, ChMod_sign, FreqTCH(C_arfcn_tchA), FreqTCH(C_arfcn_tchAd), TimingAdv(TSPX_TimadvB), C_BABR_0, C_cch_1nonComb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                              |   |          |
| 7                           |       | +CCCH_group_Paging_group(TCV_Ccd0A, TSPX_IMSI)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                              |   |          |
| 8                           |       | START T_dly(40000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                              |   |          |
| 9                           |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                              |   |          |
| 10                          |       | +thirdPart                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                              |   |          |
|                             |       | <b>firstPart</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                              |   |          |
| 11                          |       | [(TSPX_nPara < 9) AND(TSPX_nPara > 0) AND(TSPX_i1Para > 0) AND (TSPX_i1Para <= TSPX_nPara)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                              |   |          |
| 12                          |       | L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)                                                                                       |   |          |
| 13                          |       | (TCV_Cnt := 0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                              |   |          |
| 14                          |       | REPEAT localTree UNTIL [TCV_Cnt = TSPX_nPara]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                              |   | 5.       |
| 15                          |       | (TCV_Rqr := OC_SaveAndRetrv(TCV_Rqr, C_RETRV, TSPX_i1Para, 0), TCV_Rqr9 := OC_SaveAndRetrv(TCV_Rqr, C_RETRV, 10, 1))                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                              |   | 6.       |
| 16                          |       | L!DL_UdatRqImmassx                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ImmAssX(TCV_agch, ImmAsgnX_r01(TCV_Rqr.ra, TCV_Rqr.fn, TCV_Rqr9.ra, TCV_Rqr9.fn, TCV_slot, TCV_tsc, TimingAdv(TSPX_TimadvB), |   | 7.<br>3. |

|                   |                                                                                                                               |                                                                                                                                                                            |           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 17                | L?DL_EstInPgRes                                                                                                               | TCV_chdescr_arfcn))<br>PgRes(TCV_ch,<br>PagingRes_01)                                                                                                                      | (P)       |
| 18                | +PostMainLinkRel(TCV_ch)                                                                                                      |                                                                                                                                                                            |           |
| 19                | START T_dly(12000)                                                                                                            |                                                                                                                                                                            |           |
| 20                | ?TIMEOUT T_dly                                                                                                                |                                                                                                                                                                            |           |
| 21                | [(TSPX_nPara > 8) OR(TSPX_nPara < 1)<br>OR(TSPX_i1Para <1) OR(TSPX_i1Para ><br>TSPX_nPara)]                                   |                                                                                                                                                                            | (I)       |
| <b>secondPart</b> |                                                                                                                               |                                                                                                                                                                            |           |
| 22                | [(TSPX_kPara < 9) AND(TSPX_kPara > 3)<br>AND(TSPX_i2Para >0) AND (TSPX_i2Para <=<br>TSPX_kPara)]                              |                                                                                                                                                                            |           |
| 23                | L!DL_UdatRqPg1Rq                                                                                                              | PgReq1(TCV_PgCh,<br>TCV_Pgg,<br>PgReqTp1_01)                                                                                                                               |           |
| 24                | (TCV_Cnt := 0)                                                                                                                |                                                                                                                                                                            |           |
| 25                | REPEAT localTree UNTIL [TCV_Cnt =<br>TSPX_kPara]                                                                              |                                                                                                                                                                            | 8.        |
| 26                | (TCV_Rqr := OC_SaveAndRetrv(TCV_Rqr,<br>C_RETRV, TSPX_i2Para, 0), TCV_Rqr9 :=<br>OC_SaveAndRetrv(TCV_Rqr, C_RETRV, 11,<br>1)) |                                                                                                                                                                            | 9.        |
| 27                | L!DL_UdatRqImmssx                                                                                                             | ImmAssX(TCV_agch,<br>ImmAsgnX_r01(TCV_<br>Rqr.ra, TCV_Rqr.fn,<br>TCV_Rqr9.ra,<br>TCV_Rqr9.fn,<br>TCV_slot, TCV_tsc,<br>TimingAdv(TSPX_Ti<br>madvB),<br>TCV_chdescr_arfcn)) | 10.<br>3. |
| 28                | (TCV_Cnt := 0)                                                                                                                |                                                                                                                                                                            |           |
| 29                | [TSPX_kPara < 8]                                                                                                              |                                                                                                                                                                            |           |
| 30                | REPEAT localTree UNTIL [TCV_Cnt<br>= 8 - TSPX_kPara]                                                                          |                                                                                                                                                                            | 11.       |
| 31                | +ltree_noL2                                                                                                                   |                                                                                                                                                                            |           |
| 32                | [TSPX_kPara = 8]                                                                                                              |                                                                                                                                                                            |           |
| 33                | +ltree_noL2                                                                                                                   |                                                                                                                                                                            |           |
| 34                | [(TSPX_kPara > 8) OR(TSPX_kPara < 4)<br>OR(TSPX_i2Para <1) OR(TSPX_i2Para ><br>TSPX_kPara)]                                   |                                                                                                                                                                            | (I)       |
| <b>ltree_noL2</b> |                                                                                                                               |                                                                                                                                                                            |           |
| 35                | START T_dly(3000)                                                                                                             |                                                                                                                                                                            |           |
| 36                | L?OTHERWISE                                                                                                                   |                                                                                                                                                                            | F         |
| 37                | ?TIMEOUT T_dly                                                                                                                |                                                                                                                                                                            | (P)       |
| 38                | START T_dly(7000)                                                                                                             |                                                                                                                                                                            |           |
| 39                | ?TIMEOUT T_dly                                                                                                                |                                                                                                                                                                            |           |
| <b>thirdPart</b>  |                                                                                                                               |                                                                                                                                                                            |           |
| 40                | [(TSPX_rPara < 9) AND(TSPX_rPara > 3)<br>AND(TSPX_i3Para >0) AND (TSPX_i3Para <=<br>TSPX_rPara)]                              |                                                                                                                                                                            |           |
| 41                | L!DL_UdatRqPg1Rq                                                                                                              | PgReq1(TCV_PgCh,<br>TCV_Pgg,<br>PgReqTp1_01)                                                                                                                               |           |
| 42                | (TCV_Cnt := 0)                                                                                                                |                                                                                                                                                                            |           |
| 43                | REPEAT localTree UNTIL [TCV_Cnt =<br>TSPX_rPara]                                                                              |                                                                                                                                                                            | 13.       |
| 44                | (TCV_Rqr := OC_SaveAndRetrv(TCV_Rqr,<br>C_RETRV, TSPX_i3Para, 0), TCV_Rqr9 :=<br>OC_SaveAndRetrv(TCV_Rqr, C_RETRV, 12,<br>1)) |                                                                                                                                                                            | 14.       |
| 45                | L!DL_UdatRqImmssx                                                                                                             | ImmAssX(TCV_agch,<br>ImmAsgnX_r02(TCV_<br>Rqr9.ra,<br>TCV_Rqr9.fn,<br>TCV_Rqr.ra,                                                                                          | 4.        |

|    |                                                                                                             |                                                                               |     |     |
|----|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----|-----|
| 46 | L?DL_EstInPgRes                                                                                             | TCV_Rqr.fn,<br>TSPX_TmSltDef,<br>TSPX_TscDef,<br>TimingAdv(TSPX_Ti<br>madvB)) | (P) |     |
| 47 | +PostMainLinkRel(TCV_ch)                                                                                    | PgRes(TCV_ch,<br>PagingRes_01)                                                |     |     |
| 48 | [(TSPX_rPara > 8) OR(TSPX_rPara < 4)<br>OR(TSPX_i3Para <1) OR(TSPX_i3Para ><br>TSPX_rPara)]                 |                                                                               | (I) |     |
| 49 | <b>localTree</b><br>L?DL_RaInChRq(TCV_Rqr.ra := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Rqr.fn := DL_RaInChRq.fn) | ChReq(ChRequest_1<br>7)                                                       |     | 15. |
| 50 | (TCV_Cnt := TCV_Cnt +1)                                                                                     |                                                                               |     |     |
| 51 | (TCV_Rqr10 := OC_SaveAndRetrv(TCV_Rqr,<br>C_SAVE, TCV_Cnt, 0))                                              |                                                                               |     |     |

**Detailed Comments:**

1. To broadcast sys\_info messages with default contents for RR tests with exception for Max\_Retrans that is set to 7 and also to set up a physical channel as combined CCCH/SDCCH.
2. Non combined CCCH/SDCCH, 5 slots for Tx-int, 7 retransmission.
3. To send immediate Assignment Extended message with Request reference (TCV\_Rqr) for MS1,  
and with request reference (TCV\_Rqr9) for MS2.
4. To send immediate Assignment Extended message with Request reference (TCV\_Rqr) for MS2,  
request reference (TCV\_Rqr9) for MS1.
5. Reception of the first TSPX\_nPara Channel Request messages.
6. To have a request reference pertaining to the TSPX\_i1Para\_i-th Channel Request where 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 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                              |   |                                      |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---|--------------------------------------|
| <b>Test Case Name:</b>      |       | TC_26_6_1_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                              |   |                                      |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                              |   |                                      |
| <b>Purpose:</b>             |       | To verify that the MS can accept an IMMEDIATE ASSIGNMENT REJECT.<br>To verify that the MS can respond to paging after an IMMEDIATE ASSIGNMENT REJECT is received on a different cell.                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                              |   |                                      |
| <b>Default:</b>             |       | OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                              |   |                                      |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                                                         | V | Comments                             |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                              |   |                                      |
| 2                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                                                                              |   |                                      |
| 3                           |       | +StartCellB(C_E_suitable, C_arfcnB, C_arfcnBd, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_04, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC)                                                                                                                                                                                                                                                                |                                                                                              |   | 2.<br>The LAI is the same as cell A. |
| 4                           | body  | +test1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                              |   |                                      |
| 5                           |       | +ltree_switchcelltoB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                              |   |                                      |
| 6                           |       | +test2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                              |   |                                      |
|                             |       | <b>test1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                              |   |                                      |
| 7                           |       | [(TSPX_n1Para < 9) AND(TSPX_n1Para > 0) AND(TSPX_i4Para > 0) AND (TSPX_i4Para <= TSPX_n1Para) AND(TSPX_xPara < 256) AND(TSPX_xPara > 4)]                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                              |   |                                      |
| 8                           |       | +CCCH_group_Paging_group(TCV_Ccd0A, TSPX_IMSI)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                              |   |                                      |
| 9                           |       | LIDL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)                                                       |   | Cell A                               |
| 10                          |       | (TCV_Cnt := 0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                              |   |                                      |
| 11                          |       | REPEAT localTree UNTIL [TCV_Cnt = TSPX_n1Para]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                              |   |                                      |
| 12                          |       | (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))                                                                                                                                                                                                                                                                                                                                    |                                                                                              |   |                                      |
| 13                          |       | LIDL_UdatRqImmRej                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ImmAssRej(TCV_agc h, ImmAsgnRej_r01(TCV_Rqr9, TCV_Rqr, TCV_Rqr10, TCV_Rqr11, TSPX_xPara, 0)) |   |                                      |
| 14                          |       | +continuePaging((TSPX_xPara + 1) * 1000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                              |   | 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 |      | LIDL_UdatRqImmassRej                                                                                                                                       | ImmAssRej(TCV_agc<br>h,<br>ImmAsgnRej_r01(TC<br>V_Rqr9, TCV_Rqr10,<br>TCV_Rqr,<br>TCV_Rqr11, 0, 255)) |     |                                                          |
| 17 |      | [(TSPX_n1Para > 8) OR(TSPX_n1Para < 1)<br>OR(TSPX_i4Para <1) OR(TSPX_i4Para ><br>TSPX_n1Para) AND(TSPX_xPara > 255)<br>AND(TSPX_xPara < 5)]                |                                                                                                       | (I) |                                                          |
| 18 |      | <b>test2</b><br>START T_dly(12000)                                                                                                                         |                                                                                                       |     |                                                          |
| 19 |      | +CCCH_group_Paging_group(TCV_Ccd0B,<br>TSPX_IMSI)                                                                                                          |                                                                                                       |     |                                                          |
| 20 |      | ?TIMEOUT T_dly                                                                                                                                             |                                                                                                       |     |                                                          |
| 21 |      | LIDL_UdatRqPg1Rq                                                                                                                                           | PgReq1(TCV_PgCh,<br>TCV_Pgg,<br>PgReqTp1_01)                                                          |     | Cell B                                                   |
| 22 |      | L?DL_RaclnChRq (TCV_Rr :=<br>DL_RaclnChRq.msg.ecau_rrf, TCV_Fn :=<br>DL_RaclnChRq.fn)                                                                      | ChReq_01(C_RACH_<br>B_1, ChRequest_01)                                                                | (P) | 5.                                                       |
| 23 |      | LIDL_UdatRqImmassRej                                                                                                                                       | ImmAssRej(TCV_agc<br>h,<br>ImmAsgnRej_r02(TC<br>V_Rr, TCV_Fn))                                        |     |                                                          |
| 24 |      | <b>continuePaging(t:INTEGER)</b><br>START T_dly(t)                                                                                                         |                                                                                                       |     |                                                          |
| 25 | loop | ?TIMEOUT T_dly                                                                                                                                             |                                                                                                       |     | No reaction                                              |
| 26 |      | LIDL_UdatRqPg1Rq                                                                                                                                           | PgReq1(TCV_PgCh,<br>TCV_Pgg,<br>PgReqTp1_01)                                                          |     |                                                          |
| 27 |      | L?DL_RaclnChRq (TCV_Rqr.ra :=<br>DL_RaclnChRq.msg.ecau_rrf, TCV_Rqr.fn :=<br>DL_RaclnChRq.fn)                                                              | ChReq_01(C_RACH_<br>A_1, ChRequest_01)                                                                | (P) | 4.                                                       |
| 28 |      | (TCV_Rqr9 := OC_SaveAndRetrv(TCV_Rqr,<br>C_SAVE,(TCV_Cnt + 1), 0))                                                                                         |                                                                                                       |     |                                                          |
| 29 |      | LIDL_UdatRqPg1Rq START T_dly1(1177)                                                                                                                        | PgReq1(TCV_PgCh,<br>TCV_Pgg,<br>PgReqTp1_01)                                                          |     | Every 5 multiframes                                      |
| 30 |      | L?DL_RaclnChRq (TCV_Rqr.ra :=<br>DL_RaclnChRq.msg.ecau_rrf, TCV_Rqr.fn :=<br>DL_RaclnChRq.fn) READTIMER<br>T_dly(TCV_Time), CANCEL T_dly1, CANCEL<br>T_dly | ChReq_01(C_RACH_<br>A_1, ChRequest_01)                                                                |     | Received at least one<br>channel request within<br>x+1s. |
| 31 |      | (TCV_Rqr9 := OC_SaveAndRetrv(TCV_Rqr,<br>C_SAVE,(TCV_Cnt + 1), 0))                                                                                         |                                                                                                       |     |                                                          |
| 32 |      | [(TCV_Time <= (TSPX_xPara * 1000))<br>AND(TCV_Time > 0)]                                                                                                   |                                                                                                       | (F) | received within 1s.                                      |
| 33 |      | [(TCV_Time >(TSPX_xPara * 1000)) OR<br>(TCV_Time = 0)]                                                                                                     |                                                                                                       | (P) | received btw x, x+1 s.                                   |
| 34 |      | ?TIMEOUT T_dly1                                                                                                                                            |                                                                                                       |     |                                                          |
| 35 |      | GOTO loop                                                                                                                                                  |                                                                                                       |     |                                                          |
| 36 |      | <b>localTree</b><br>L?DL_RaclnChRq (TCV_Rqr.ra := DL_RaclnChRq.<br>msg.ecau_rrf, TCV_Rqr.fn := DL_RaclnChRq.fn)                                            | ChReq_01(C_RACH_<br>A_1, ChRequest_01)                                                                | (P) |                                                          |
| 37 |      | (TCV_Cnt := TCV_Cnt +1)                                                                                                                                    |                                                                                                       |     |                                                          |
| 38 |      | (TCV_Rqr9 := OC_SaveAndRetrv(TCV_Rqr,<br>C_SAVE, TCV_Cnt, 0))                                                                                              |                                                                                                       |     |                                                          |
| 39 |      | <b>ltree_switchcelltoB</b><br>+Varinit_fixB                                                                                                                |                                                                                                       |     |                                                          |
| 40 |      | (TCV_lac:= C_LAC_1)                                                                                                                                        |                                                                                                       |     |                                                          |
| 41 |      | (TCV_Null := OM_ChangeRFOf2Cells(C_CellA,<br>C_E_notsuitable_fSel, C_CellB, C_E_suitable))                                                                 |                                                                                                       |     |                                                          |

**Detailed Comments:**

1. To setup a physical channel as combined CCCH/SDCCH, 5 for Tx-int, 7 retransmission used as cell A.
2. To setup a physical channel as combined 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 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                       |     |          |
|-----------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_6_1_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                       |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                       |     |          |
| <b>Purpose:</b>             |       | To verify that the MS ignores an assignment for another MS while it is waiting for an assignment of its own.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                       |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                       |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CRef                                                                                                                  | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                       |     |          |
| 2                           |       | +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(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_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_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := OC_FnInc(DL_RaInChRq.fn, 2))                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ChReq(ChRequest_1 7)                                                                                                  |     | 2.       |
| 5                           |       | LIDL_UdatRqImmMass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 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?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ChReq(ChRequest_1 7)                                                                                                  | (P) |          |
| 9                           |       | LIDL_UdatRqImmMassRej                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ImmAssRej(TCV_agch, ImmAsgnRej_r02(TCV_Rr, TCV_Fn))                                                                   |     |          |
| 10                          |       | +localtree1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                       |     |          |
| 11                          |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ChReq(ChRequest_1 7)                                                                                                  | (P) |          |
| 12                          |       | LIDL_UdatRqImmMassRej                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ImmAssRej(TCV_agch, ImmAsgnRej_r02(TCV_Rr, TCV_Fn))                                                                   |     |          |
| 13                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                       |     |          |
| 14                          |       | +localtree1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                       |     |          |
| <b>localtree1</b>           |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                       |     |          |
| 15                          |       | START T_dly(6000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                       |     |          |
| 16                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                       |     |          |
| 17                          |       | LIDL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)                                                                                |     |          |
| 18                          |       | L?DL_RaInChRq (TCV_Rr := OC_BinAdd(DL_RaInChRq.msg.ecau_rrf, '00000010'B), TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ChReq(ChRequest_1 7)                                                                                                  |     | 3.       |
| 19                          |       | LIDL_UdatRqImmMass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubB, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30))) |     |          |



|                           |                                                                                    |                                                                                                                                                                                                                                         |     |  |
|---------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--|
| 20                        | START T_dly(2000)                                                                  |                                                                                                                                                                                                                                         |     |  |
| 21                        | ?TIMEOUT T_dly                                                                     |                                                                                                                                                                                                                                         |     |  |
| 22                        | L?DL_RaInChRq (TCV_Rr :=<br>DL_RaInChRq.msg.ecau_rrf, TCV_Fn<br>:= DL_RaInChRq.fn) | ChReq(ChRequest_1<br>7)                                                                                                                                                                                                                 |     |  |
| 23                        | LIDL_UdatRqImmRej                                                                  | ImmAssRej(TCV_agc<br>h,<br>ImmAsgnRej_r02(TC<br>V_Rr, TCV_Fn))                                                                                                                                                                          | P   |  |
| 24                        | L?DL_RaInChRq (TCV_Rr :=<br>DL_RaInChRq.msg.ecau_rrf, TCV_Fn<br>:= DL_RaInChRq.fn) | ChReq(ChRequest_1<br>7)                                                                                                                                                                                                                 |     |  |
| 25                        | LIDL_UdatRqImmRej                                                                  | ImmAssRej(TCV_agc<br>h,<br>ImmAsgnRej_r02(TC<br>V_Rr, TCV_Fn))                                                                                                                                                                          | (P) |  |
| 26                        | ?TIMEOUT T_dly                                                                     |                                                                                                                                                                                                                                         |     |  |
| <b>Detailed Comments:</b> |                                                                                    | <ol style="list-style-type: none"> <li>1. To setup a physical channel as combined bcch/sdcch, default parameters for cell A.</li> <li>2. making a frame number is of 2 higher.</li> <li>3. Making a wrong request reference.</li> </ol> |     |  |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                              |     |          |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_6_1_5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                              |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                              |     |          |
| <b>Purpose:</b>             |       | To verify that the MS correctly responds to an IMMEDIATE ASSIGNMENT message sent after an IMMEDIATE ASSIGNMENT REJECT message.                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                              |     |          |
| <b>Default:</b>             |       | OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                              |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CRef                                                                                                                         | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                              |     |          |
| 2                           |       | +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_7, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_1, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_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) |                                                                                                                              |     |          |
| 3                           |       | +SDCCH8_A_1_nociph(TSPX_SDCCH8SubDef, C_ImmMass, TSPX_TmSlTDef, TSPX_TscDef, ChMod_sign, FreqTCH(C_arfcn_tchA), FreqTCH(C_arfcn_tchAd), TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                              | 2.  |          |
| 4                           | body  | LIDL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)                                                                                       |     |          |
| 5                           |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ChReq(ChRequest_17)                                                                                                          |     |          |
| 6                           |       | L?DL_RaInChRq (TCV_Rr1 := DL_RaInChRq.msg.ecau_rrf, TCV_Fn1 := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ChReq(ChRequest_17)                                                                                                          |     |          |
| 7                           |       | L?DL_RaInChRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ChReq(ChRequest_17)                                                                                                          |     |          |
| 8                           |       | LIDL_UdatRqImmMassRej                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ImmAssRej(TCV_agch, ImmAsgnRej_04(TCV_Rr, TCV_Fn))                                                                           |     |          |
| 9                           |       | START T_dly1(OC_Random(750, 1250))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                              |     |          |
| 10                          |       | ?TIMEOUT T_dly1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                              |     |          |
| 11                          |       | LIDL_UdatRqImmMass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ImmAss(TCV_agch, ImmAsgn_r02(TCV_Rr, TCV_Fn, TSPX_SDCCH8SubD, TSPX_TmSlTDef, TSPX_TscDef, TimingAdv(30), TCV_chdescr_arfcn)) |     |          |
| 12                          |       | L?DL_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PgRes(TCV_ch, PagingRes_01)                                                                                                  | (P) | 3.       |
| 13                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                              |     |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To setup a physical channel as non-combined CCCH/SDCCH, Tx-int= 7 , retransmission = 7.</li> <li>2. To setup a physical channel as SDCCH8.</li> <li>3. The expected PAGING RESPONSE received on the correct channel (TSPX_SDCCH8SubD)</li> </ol>                                                                                                                                                                                                                                                                                   |                                                                                                                              |     |          |

| <b>Test Case Dynamic Behaviour</b> |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         |     |          |
|------------------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----|----------|
| <b>Test Case Name:</b>             |       | TC_26_6_2_1_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                         |     |          |
| <b>Group:</b>                      |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                         |     |          |
| <b>Purpose:</b>                    |       | 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.                                                                                                                                                                            |                                         |     |          |
| <b>Default:</b>                    |       | OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                         |     |          |
| Nr                                 | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CRef                                    | V   | Comments |
| 1                                  |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                         |     |          |
| 2                                  |       | +IdleUpdated(C_E_default, C_Cella, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_S2, C_S4, C_S6, C_BCC, C_TxInt_5, C_Max_2, C_NECI_0, C_ATT_0, TimingAdv(30), INT_TO_BIT(TSPX_AGBLKS1, 3), TSPX_CcchConf1, INT_TO_BIT((TSPX_PAMFRMS1-2), 3), C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, 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) |                                         |     |          |
| 3                                  |       | +local_tree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                         |     |          |
| 4                                  | body  | +test1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                         |     |          |
| 5                                  |       | +test2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                         |     |          |
| 6                                  |       | +test3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                         |     |          |
| 7                                  |       | +test4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                         |     |          |
| 8                                  |       | +test5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                         |     |          |
|                                    |       | <b>test1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                         |     |          |
| 9                                  |       | L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_05)  |     | 1.       |
| 10                                 |       | +local_immass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                         |     |          |
| 11                                 |       | L?DL_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | PagingRes(PagingRes_r02)                | (P) |          |
| 12                                 |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                         |     |          |
|                                    |       | <b>test2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                         |     |          |
| 13                                 |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                         |     |          |
| 14                                 |       | L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_r01) |     | 2.       |
| 15                                 |       | +local_immass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                         |     |          |
| 16                                 |       | L?DL_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | PagingRes(PagingRes_r01)                | (P) |          |
| 17                                 |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                         |     |          |
|                                    |       | <b>test3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                         |     |          |
| 18                                 |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                         |     |          |
| 19                                 |       | L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_r02) |     | 3.       |
| 20                                 |       | +local_immass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                         |     |          |
| 21                                 |       | L?DL_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | PagingRes(PagingRes_r02)                | (P) |          |
| 22                                 |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                         |     |          |
|                                    |       | <b>test4</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                         |     |          |
| 23                                 |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                         |     |          |
| 24                                 |       | L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_r03) |     | 4.       |

|                     |                                                                                                                                                                                                                                      |                                                                                                                                |     |    |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 25                  | +local_immass                                                                                                                                                                                                                        |                                                                                                                                |     |    |
| 26                  | L?DL_EstInPgRes                                                                                                                                                                                                                      | PagingRes(PagingRes_r01)                                                                                                       | (P) |    |
| 27                  | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                             |                                                                                                                                |     |    |
| <b>test5</b>        |                                                                                                                                                                                                                                      |                                                                                                                                |     |    |
| 28                  | ?TIMEOUT T_dly                                                                                                                                                                                                                       |                                                                                                                                |     |    |
| 29                  | L!DL_UdatRqPg1Rq                                                                                                                                                                                                                     | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_r04)                                                                                        |     | 5. |
| 30                  | START T_dly(1000)                                                                                                                                                                                                                    |                                                                                                                                |     |    |
| 31                  | ?TIMEOUT T_dly                                                                                                                                                                                                                       |                                                                                                                                | P   |    |
| 32                  | L?OTHERWISE                                                                                                                                                                                                                          |                                                                                                                                | F   | 6. |
| <b>local_immass</b> |                                                                                                                                                                                                                                      |                                                                                                                                |     |    |
| 33                  | L?DL_RaInChRq                                                                                                                                                                                                                        | ChReq(ChRequest_17)                                                                                                            |     |    |
| 34                  | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                         | ChReq(ChRequest_17)                                                                                                            |     |    |
| 35                  | [TSPX_CcchConf1 = C_cch_XnonComb]                                                                                                                                                                                                    |                                                                                                                                |     |    |
| 36                  | L!DL_UdatRqImmass START T_dly(12000)                                                                                                                                                                                                 | ImmAss(TCV_agch, ImmAsgn_r02(TCV_Rr, TCV_Fn, TSPX_SDCCH8SubDef, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(30), TCV_chdescr_arfcn)) |     |    |
| 37                  | [TSPX_CcchConf1 = C_cch_1Comb]                                                                                                                                                                                                       |                                                                                                                                |     |    |
| 38                  | L!DL_UdatRqImmass START T_dly(12000)                                                                                                                                                                                                 | ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubC, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30)))          |     |    |
| 39                  | [TSPX_CcchConf1 = C_cch_NotAllowed]                                                                                                                                                                                                  |                                                                                                                                | I   |    |
| <b>local_tree</b>   |                                                                                                                                                                                                                                      |                                                                                                                                |     |    |
| 40                  | [TSPX_CcchConf1 = C_cch_1Comb]                                                                                                                                                                                                       |                                                                                                                                |     |    |
| 41                  | [TSPX_CcchConf1 <> C_cch_1Comb]                                                                                                                                                                                                      |                                                                                                                                |     |    |
| 42                  | +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_AGBLKS1, 3), TSPX_CcchConf1, INT_TO_BIT((TSPX_PAMFRMS1-2), 3)) |                                                                                                                                |     |    |

**Detailed Comments:**

1. Within the paging request message, the 1st MI contains IMSI of the MS, the 2nd is absent.
2. Within the paging request message, the 1st MI contains TMSI of the MS, the 2nd has the IMSI of another MS.
3. Within the paging request message, the 1st MI contains TMSI of another MS, the 2nd has the IMSI of the MS.
4. Within the paging request message, the 1st MI contains TMSI of another MS, the 2nd has the TMSI of the MS.
5. Within the paging request message, the 1st MI contains TMSI of the MS together with type of no identity, the 2nd is absent.
6. If received any L3 frame FAIL.

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                         |     |          |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_6_2_1_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                         |     |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                             |                                         |     |          |
| <b>Default:</b>             |       | OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                         |     |          |
| <b>Comments:</b>            |       | The configuration is Max-Retrans = 2, combined CCCH/BCCH, BS-AG-BLKS-RES = 2, and BS-PA-MFRMS = 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                         |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Cref                                    | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                         |     |          |
| 2                           |       | +IdleUpdated(C_E_default, C_Cella, C_SCH_A, C_BCCH_A_1, C_Immss, 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noReestablishment, 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                         |     |          |
|                             |       | <b>test1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                         |     |          |
| 9                           |       | L!DL_UdatRqPg2Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PgReq2(TCV_PgCh, TCV_Pgg, PgReqTp2_r01) |     | 1.       |
| 10                          |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                         |     |          |
| 11                          |       | L?DL_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PagingRes(PagingRes_r01)                | (P) |          |
| 12                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                         |     |          |
|                             |       | <b>test2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                         |     |          |
| 13                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                         |     |          |
| 14                          |       | L!DL_UdatRqPg2Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PgReq2(TCV_PgCh, TCV_Pgg, PgReqTp2_r02) |     | 2.       |
| 15                          |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                         |     |          |
| 16                          |       | L?DL_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PagingRes(PagingRes_r01)                | (P) |          |
| 17                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                         |     |          |
|                             |       | <b>test3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                         |     |          |
| 18                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                         |     |          |
| 19                          |       | L!DL_UdatRqPg2Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PgReq2(TCV_PgCh, TCV_Pgg, PgReqTp2_r03) |     | 3.       |
| 20                          |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                         |     |          |
| 21                          |       | L?DL_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PagingRes(PagingRes_r01)                | (P) |          |
| 22                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                         |     |          |
|                             |       | <b>test4</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                         |     |          |
| 23                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                         |     |          |
| 24                          |       | L!DL_UdatRqPg2Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PgReq2(TCV_PgCh,                        |     | 4.       |

|                   |                                                                                                                                                                                                                                                         |                                                                                                                                                        |     |    |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 25                | +localtree                                                                                                                                                                                                                                              | TCV_Pgg,<br>PgReqTp2_r04)                                                                                                                              |     |    |
| 26                | L?DL_EstInPgRes                                                                                                                                                                                                                                         | PagingRes(PagingRe<br>s_r02)                                                                                                                           | (P) |    |
| 27                | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                |                                                                                                                                                        |     |    |
| <b>test5</b>      |                                                                                                                                                                                                                                                         |                                                                                                                                                        |     |    |
| 28                | ?TIMEOUT T_dly                                                                                                                                                                                                                                          |                                                                                                                                                        |     |    |
| 29                | LIDL_UdatRqPg2Rq                                                                                                                                                                                                                                        | PgReq2(TCV_PgCh,<br>TCV_Pgg,<br>PgReqTp2_r05)                                                                                                          |     | 5. |
| 30                | START T_dly(1000)                                                                                                                                                                                                                                       |                                                                                                                                                        |     |    |
| 31                | ?TIMEOUT T_dly                                                                                                                                                                                                                                          |                                                                                                                                                        | P   |    |
| 32                | L?OTHERWISE                                                                                                                                                                                                                                             |                                                                                                                                                        | F   | 6. |
| <b>localtree</b>  |                                                                                                                                                                                                                                                         |                                                                                                                                                        |     |    |
| 33                | L?DL_RaInChRq                                                                                                                                                                                                                                           | ChReq(ChRequest_1<br>7)                                                                                                                                |     |    |
| 34                | L?DL_RaInChRq (TCV_Rr :=<br>DL_RaInChRq.msg.ecau_rrf, TCV_Fn :=<br>DL_RaInChRq.fn)                                                                                                                                                                      | ChReq(ChRequest_1<br>7)                                                                                                                                |     |    |
| 35                | [TSPX_CcchConf2 = C_cch_XnonComb]                                                                                                                                                                                                                       |                                                                                                                                                        |     |    |
| 36                | LIDL_UdatRqImmast START T_dly(C_T_Wait)                                                                                                                                                                                                                 | ImmAss(TCV_agch,<br>ImmAsgn_r02(TCV_R<br>r, TCV_Fn,<br>TSPX_SDCCH8SubD<br>ef, TSPX_TmSlitDef,<br>TSPX_TscDef,<br>TimingAdv(30),<br>TCV_chdescr_arfcn)) |     |    |
| 37                | [TSPX_CcchConf2 = C_cch_1Comb]                                                                                                                                                                                                                          |                                                                                                                                                        |     |    |
| 38                | LIDL_UdatRqImmast START T_dly(C_T_Wait)                                                                                                                                                                                                                 | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubB<br>, TCV_slot, TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(30)))              |     |    |
| 39                | [TSPX_CcchConf2 = C_cch_NotAllowed]                                                                                                                                                                                                                     |                                                                                                                                                        | I   |    |
| <b>local_tree</b> |                                                                                                                                                                                                                                                         |                                                                                                                                                        |     |    |
| 40                | [TSPX_CcchConf2 = C_cch_1Comb]                                                                                                                                                                                                                          |                                                                                                                                                        |     |    |
| 41                | [TSPX_CcchConf2 <> C_cch_1Comb]                                                                                                                                                                                                                         |                                                                                                                                                        |     |    |
| 42                | +SDCCH8_A_1_nociph(TSPX_SDCCH8SubDef,<br>C_Immast, TSPX_TmSlitDef, TSPX_TscDef,<br>ChMod_sign, FreqTCH(C_arfcn_tchA),<br>FreqTCH(C_arfcn_tchAd), TimingAdv(30),<br>INT_TO_BIT(TSPX_AGBLKS2, 3),<br>TSPX_CcchConf2,<br>INT_TO_BIT((TSPX_PAMFRMS2-2), 3)) |                                                                                                                                                        |     |    |

**Detailed Comments:**

1. Within the paging request message, the 1st MI contains TMSI of the IUT, the 2nd has the TMSI of an another MS, the 3rd is absent.
2. Within the paging request message, the 1st MI contains TMSI of an another MS, the 2nd has the TMSI of the IUT, the 3rd is absent.
3. Within the paging request message, the 1st and 2nd MI contain TMSI of an another MS, the 3rd has the TMSI of the IUT.
4. Within the paging request message, the 1st and 2nd MI contain TMSI of an another MS, the 3rd has the IMSI of the IUT.
5. Within the paging request message, the 1st and 2nd MI contain TMSI of an another MS, the 3rd has the TMSI of the IUT but with the type of no identity.
6. If received any L3 frame FAIL.

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         |     |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_6_2_1_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                         |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                         |     |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                                              |                                         |     |          |
| <b>Default:</b>             |       | OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                         |     |          |
| <b>Comments:</b>            |       | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CRef                                    | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                         |     |          |
| 2                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_S2, C_S4, C_S6, C_BCC, C_TxInt_5, C_Max_2, C_NECI_0, C_ATT_0, TimingAdv(30), INT_TO_BIT(TSPX_AGBLKS3, 3), TSPX_CcchConf3, INT_TO_BIT((TSPX_PAMFRMS3-2), 3), C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubB, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                         |     | 1.       |
| 3                           |       | +local_tree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                         |     |          |
| 4                           | body  | +test1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                         |     |          |
| 5                           |       | +test2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                         |     |          |
| 6                           |       | +test3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                         |     |          |
| 7                           |       | +test4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                         |     |          |
|                             |       | <b>test1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                         |     |          |
| 8                           |       | L!DL_UdatRqPg3Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PgReq3(TCV_PgCh, TCV_Pgg, PgReqTp3_r01) |     | 2.       |
| 9                           |       | +local_immass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                         |     |          |
| 10                          |       | L?DL_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | PagingRes(PagingRes_r01)                | (P) |          |
| 11                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                         |     |          |
|                             |       | <b>test2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                         |     |          |
| 12                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                         |     |          |
| 13                          |       | L!DL_UdatRqPg3Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PgReq3(TCV_PgCh, TCV_Pgg, PgReqTp3_r02) |     | 3.       |
| 14                          |       | +local_immass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                         |     |          |
| 15                          |       | L?DL_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | PagingRes(PagingRes_r01)                | (P) |          |
| 16                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                         |     |          |
|                             |       | <b>test3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                         |     |          |
| 17                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                         |     |          |
| 18                          |       | L!DL_UdatRqPg3Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PgReq3(TCV_PgCh, TCV_Pgg, PgReqTp3_r03) |     | 4.       |
| 19                          |       | +local_immass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                         |     |          |
| 20                          |       | L?DL_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | PagingRes(PagingRes_r01)                | (P) |          |
| 21                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                         |     |          |
|                             |       | <b>test4</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                         |     |          |
| 22                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                         |     |          |
| 23                          |       | L!DL_UdatRqPg3Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PgReq3(TCV_PgCh, TCV_Pgg, PgReqTp3_r04) |     | 5.       |
| 24                          |       | +local_immass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                         |     |          |
| 25                          |       | L?DL_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | PagingRes(PagingRes_r01)                | (P) |          |

|    |                                                                                                                                                                                                                                                      |                                                                                                                                                |   |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 26 | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                             | s_r01)                                                                                                                                         |   |
|    | <b>local_immass</b>                                                                                                                                                                                                                                  |                                                                                                                                                |   |
| 27 | L?DL_RaInChRq                                                                                                                                                                                                                                        | ChReq(ChRequest_17)                                                                                                                            |   |
| 28 | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                     | ChReq(ChRequest_17)                                                                                                                            |   |
| 29 | [TSPX_CcchConf3= C_cch_XnonComb]                                                                                                                                                                                                                     |                                                                                                                                                |   |
| 30 | LIDL_UdatRqImmast START T_dly(C_T_Wait)                                                                                                                                                                                                              | ImmAss(TCV_agch,<br>ImmAsgn_r02(TCV_Rr, TCV_Fn,<br>TSPX_SDCCH8SubE,<br>TSPX_TmSltDef,<br>TSPX_TscDef,<br>TimingAdv(30),<br>TCV_chdescr_arfcn)) |   |
| 31 | [TSPX_CcchConf3 = C_cch_1Comb]                                                                                                                                                                                                                       |                                                                                                                                                |   |
| 32 | LIDL_UdatRqImmast START T_dly(C_T_Wait)                                                                                                                                                                                                              | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV_Rr, TCV_Fn,<br>TSPX_SDCCH4SubB,<br>TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(30)))        |   |
| 33 | [TSPX_CcchConf3 = C_cch_NotAllowed]                                                                                                                                                                                                                  |                                                                                                                                                | I |
|    | <b>local_tree</b>                                                                                                                                                                                                                                    |                                                                                                                                                |   |
| 34 | [TSPX_CcchConf3 = C_cch_1Comb]                                                                                                                                                                                                                       |                                                                                                                                                |   |
| 35 | [TSPX_CcchConf3 <> C_cch_1Comb]                                                                                                                                                                                                                      |                                                                                                                                                |   |
| 36 | +SDCCH8_A_1_nociph(TSPX_SDCCH8SubE,<br>C_Immast, TSPX_TmSltDef, TSPX_TscDef,<br>ChMod_sign, FreqTCH(C_arfcn_tchA),<br>FreqTCH(C_arfcn_tchAd), TimingAdv(30),<br>INT_TO_BIT(TSPX_AGBLKS3, 3),<br>TSPX_CcchConf3,<br>INT_TO_BIT((TSPX_PAMFRMS3-2), 3)) |                                                                                                                                                |   |

**Detailed Comments:**

1. To setup three physical channels two as BCCH/CCCH's and one as SDCCH8 channel.
2. Within the paging request message, the 1st MI contains TMSI of the IUT, the 2nd, 3rd and 4th have the TMSIs of another MSs.
3. Within the paging request message, the 2nd MI contains TMSI of the IUT, the 1st, 3rd and 4th 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 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                            |     |          |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_6_2_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                            |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                            |     |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                            |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                            |     |          |
| <b>Comments:</b>            |       | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CRef                                                       | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                            |     |          |
| 2                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immss, 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_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) |                                                            |     | 1.       |
| 3                           | body  | +test1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            |     |          |
| 4                           |       | +test2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            |     |          |
| 5                           |       | +test3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            |     |          |
| 6                           |       | +test4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            |     |          |
| 7                           |       | +test5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            |     |          |
|                             |       | <b>test1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                            |     |          |
| 8                           |       | (TCV_Null := OM_2Msgs(TCV_PgCh, TCV_Pgg, C_NxtButOne))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            |     |          |
| 9                           |       | LIDL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_06)                     |     |          |
| 10                          |       | LIDL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)                     |     | 2.       |
| 11                          |       | L?DL_RaInChRq (TCV_Rqr.ra := DL_RaInChRq. msg.ecau_rrf, TCV_Rqr.fn := DL_RaInChRq.fn, TCV_Rqr9 := OC_SaveAndRetrv(TCV_Rqr, C_SAVE, 1, 0))                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ChReq(ChRequest_0 2)                                       |     |          |
| 12                          |       | L?DL_RaInChRq (TCV_Rqr.ra := DL_RaInChRq. msg.ecau_rrf, TCV_Rqr.fn := DL_RaInChRq.fn, TCV_Rqr9 := OC_SaveAndRetrv(TCV_Rqr, C_SAVE, 2, 0))                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ChReq(ChRequest_0 2)                                       | (P) |          |
| 13                          |       | !IDL_UdatRqImmssRej START T_dly(C_T_Wait)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ImmAssRej(TCV_agch, ImmAsgnRej_03(TCV_Rqr.ra, TCV_Rqr.fn)) |     | 3.       |
|                             |       | <b>test2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                            |     |          |
| 14                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                            |     |          |
| 15                          |       | (TCV_Null := OM_2Msgs(TCV_PgCh, TCV_Pgg, C_NxtButOne), TCV_Rqr9 := OC_SaveAndRetrv(TCV_Rqr, C_RETRV, 10, 1))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                            |     |          |
| 16                          |       | +gsmOrDcs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                            |     | 4.       |
| 17                          |       | LIDL_UdatRqPg2Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PgReq2(TCV_PgCh, TCV_Pgg, PgReqTp2_04)                     |     | 5.       |
| 18                          |       | L?DL_RaInChRq(TCV_Rqr.ra := DL_RaInChRq. msg.ecau_rrf, TCV_Rqr.fn := DL_RaInChRq.fn, TCV_Rqr9 := OC_SaveAndRetrv(TCV_Rqr, C_SAVE, 3, 0))                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ChReq(ChRequest_0 2)                                       |     |          |
| 19                          |       | L?DL_RaInChRq(TCV_Rqr.ra := DL_RaInChRq. msg.ecau_rrf, TCV_Rqr.fn := DL_RaInChRq.fn, TCV_Rqr9 := OC_SaveAndRetrv(TCV_Rqr, C_SAVE, 4,                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ChReq(ChRequest_0 2)                                       | (P) |          |

|    |                                                                                                                    |                                                                                                                                                                                           |     |
|----|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 20 | 0)<br>L!DL_UdatRqImmRej START<br>T_dly(C_T_Wait)                                                                   | ImmAssRej(TCV_agc<br>h,<br>ImmAsgnRej_03(TCV<br>_Rqr.ra, TCV_Rqr.fn))                                                                                                                     | 3.  |
| 21 | <b>test3</b><br>?TIMEOUT T_dly                                                                                     |                                                                                                                                                                                           |     |
| 22 | (TCV_Null := OM_2Msgs(TCV_PgCh, TCV_Pgg,<br>C_NxtButOne), TCV_Rqr9 :=<br>OC_SaveAndRetrv(TCV_Rqr, C_RETRV, 11, 1)) |                                                                                                                                                                                           |     |
| 23 | +gsmOrDcs1                                                                                                         |                                                                                                                                                                                           | 6.  |
| 24 | L!DL_UdatRqPg3Rq                                                                                                   | PgReq3(TCV_PgCh,<br>TCV_Pgg,<br>PgReqTp3_r05)                                                                                                                                             | 7.  |
| 25 | +ltree_chreq                                                                                                       |                                                                                                                                                                                           |     |
| 26 | <b>test4</b><br>?TIMEOUT T_dly                                                                                     |                                                                                                                                                                                           |     |
| 27 | (TCV_Null := OM_2Msgs(TCV_PgCh, TCV_Pgg,<br>C_NxtButOne))                                                          |                                                                                                                                                                                           |     |
| 28 | L!DL_UdatRqPg3Rq                                                                                                   | PgReq3(TCV_PgCh,<br>TCV_Pgg,<br>PgReqTp3_01)                                                                                                                                              | 8.  |
| 29 | L!DL_UdatRqPg2Rq                                                                                                   | PgReq2(TCV_PgCh,<br>TCV_Pgg,<br>PgReqTp2_r06)                                                                                                                                             | 9.  |
| 30 | +ltree_chreq                                                                                                       |                                                                                                                                                                                           |     |
| 31 | <b>test5</b><br>?TIMEOUT T_dly                                                                                     |                                                                                                                                                                                           |     |
| 32 | (TCV_Null := OM_2Msgs(TCV_PgCh, TCV_Pgg,<br>C_NxtButOne))                                                          |                                                                                                                                                                                           |     |
| 33 | L!DL_UdatRqPg2Rq                                                                                                   | PgReq2(TCV_PgCh,<br>TCV_Pgg,<br>PgReqTp2_02)                                                                                                                                              | 8.  |
| 34 | L!DL_UdatRqPg1Rq                                                                                                   | PgReq1(TCV_PgCh,<br>TCV_Pgg,<br>PgReqTp1_05)                                                                                                                                              | 10. |
| 35 | +ltree_chreq                                                                                                       |                                                                                                                                                                                           |     |
| 36 | ?TIMEOUT T_dly                                                                                                     |                                                                                                                                                                                           |     |
| 37 | <b>ltree_chreq</b><br>L?DL_RaInChRq                                                                                | ChReq(ChRequest_0<br>2)                                                                                                                                                                   |     |
| 38 | L?DL_RaInChRq(TCV_Rqr.ra := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Rqr.fn := DL_RaInChRq.fn)                            | ChReq(ChRequest_0<br>2)                                                                                                                                                                   | (P) |
| 39 | L!DL_UdatRqImmRej START<br>T_dly(C_T_Wait)                                                                         | ImmAssRej(TCV_agc<br>h,<br>ImmAsgnRej_03(TCV<br>_Rqr.ra, TCV_Rqr.fn))                                                                                                                     |     |
| 40 | <b>gsmOrDcs</b><br>[TSPX_CcchConf3 = C_cch_XnonComb]                                                               |                                                                                                                                                                                           |     |
| 41 | L!DL_UdatRqImmRej_sp                                                                                               | ImmAssSp(TCV_PgC<br>h, TCV_Pgg,<br>ImmAsgn_nfh(TCV_R<br>qr9.ra, TCV_Rqr9.fn,<br>TCV_Tchtype,<br>TSPX_TmSltDef,<br>TSPX_TscDef,<br>TimingAdv(30),<br>TCV_tch_arfcn,<br>C_extended_paging)) | 4.  |
| 42 | [TSPX_CcchConf3 = C_cch_1Comb]                                                                                     |                                                                                                                                                                                           |     |
| 43 | L!DL_UdatRqImmRej_sp                                                                                               | ImmAssSp(TCV_PgC<br>h, TCV_Pgg,<br>ImmAsgn_nfh(TCV_R<br>qr9.ra, TCV_Rqr9.fn,<br>TCV_Tchtype,<br>TCV_slot, TCV_tsc,                                                                        | 4.  |

|    |                                                                                                                                                                                                                                                      |                                                                                                                                                                                                       |    |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 44 | [TSPX_CcchConf3 = C_cch_NotAllowed]                                                                                                                                                                                                                  | TimingAdv(30),<br>TCV_chdescr_arfcn,<br>C_extended_paging))                                                                                                                                           | I  |
| 45 | <b>gsmOrDcs1</b><br>[TSPX_CcchConf3 = C_cch_XnonComb]                                                                                                                                                                                                |                                                                                                                                                                                                       |    |
| 46 | LIDL_UdatRqImmssx_sp                                                                                                                                                                                                                                 | ImmAssXSp(TCV_Pg<br>Ch, TCV_Pgg,<br>ImmAsgnX_01(TCV_<br>Rqr9.ra,<br>TCV_Rqr9.fn,<br>TSPX_SDCCH8SubD<br>ef,<br>TSPX_SDCCH8SubA<br>, TSPX_TmSlDef,<br>TSPX_TscDef,<br>TimingAdv(30),<br>TCV_tch_arfcn)) | 6. |
| 47 | [TSPX_CcchConf3 = C_cch_1Comb]                                                                                                                                                                                                                       |                                                                                                                                                                                                       |    |
| 48 | LIDL_UdatRqImmssx_sp                                                                                                                                                                                                                                 | ImmAssXSp(TCV_Pg<br>Ch, TCV_Pgg,<br>ImmAsgnX_r03(TCV_<br>Rqr9.ra,<br>TCV_Rqr9.fn,<br>TSPX_SDCCH4SubB<br>,<br>TSPX_SDCCH4SubA<br>, TCV_slot, TCV_tsc,<br>TimingAdv(30),<br>TCV_chdescr_arfcn))         | 6. |
| 49 | [TSPX_CcchConf3 = C_cch_NotAllowed]                                                                                                                                                                                                                  |                                                                                                                                                                                                       | I  |
| 50 | <b>ltree_sdcch</b><br>[TSPX_CcchConf3 = C_cch_XnonComb]                                                                                                                                                                                              |                                                                                                                                                                                                       |    |
| 51 | +SDCCH8_A_1_nociph(TSPX_SDCCH8SubDef,<br>C_Immss, TSPX_TmSlDef, TSPX_TscDef,<br>ChMod_sign, FreqTCH(C_arfcn_tchA),<br>FreqTCH(C_arfcn_tchAd), TimingAdv(30),<br>INT_TO_BIT(TSPX_AGBLKS3, 3),<br>TSPX_CcchConf3,<br>INT_TO_BIT((TSPX_PAMFRMS3-2), 3)) |                                                                                                                                                                                                       |    |
| 52 | (TCV_Tchtype := INT_TO_BIT((8 +<br>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 +<br>BIT_TO_INT(TSPX_SDCCH4SubB)), 5))                                                                                                                                                                                 |                                                                                                                                                                                                       |    |
| 59 | [TSPX_CcchConf3 = C_cch_NotAllowed]                                                                                                                                                                                                                  |                                                                                                                                                                                                       | I  |

**Detailed Comments:**

1. Tx-integer = 5, Max-Retrans = 2.
2. To send PAGING REQUEST TYPE 1 message with normal page mode in the next but one paging subblock on the same CCCH as previous paging message.
3. The page mode = normal paging, wait time = 5 seconds.
4. The page mode = "extended paging", request reference is different from any one already sent by the MS.
5. The page mode = "same as before", address the MS by TMSI, in the next but one paging subblock on the same CCCH.
6. The page mode = "extended paging", request reference is different from any one already sent by the MS. The ImmAsgnX message is sent on the MS paging channel.
7. The page mode = "extended paging", address the MS by TMSI, in the next but one paging subblock on the same CCCH.
8. Extended paging, not address the MS.
9. The page mode = "same as before", address the MS with IMSI.
10. normal paging, address the MS by IMSI.

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                          |   |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_6_2_3_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                          |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                          |   |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                          |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                          |   |          |
| <b>Comments:</b>            |       | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CRef                                                                                                     | V | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                          |   |          |
| 2                           |       | [(TSPX_PAMFRMS1 < 7) AND (TSPX_PAMFRMS1 >= 0)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                          |   | 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_NECl_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                           |       | [(TSPX_PAMFRMS1 > 6) OR (TSPX_PAMFRMS1 < 0)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                          | I | 6.       |
| 9                           |       | <b>secondexec</b><br>+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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                          |   |          |
| 14                          |       | <b>test1</b><br>(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)) |   |          |
| 16                          |       | LIDL_UdatRqPg2Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PgReq2(TCV_PgCh, TCV_Pgg, PgReqTp2_01)                                                                   |   | 3.       |
| 17                          |       | +ltree_chreq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                          |   |          |
| 18                          |       | <b>test2</b><br>(TCV_Null := OM_PgFill(C_CellA, PgReqTp1Reorg))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                          |   |          |
| 19                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                          |   |          |
| 20                          |       | LIDL_UdatRqPg2Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PgReq2(TCV_PgCh, INT_TO_BIT(TSPX_PgSubch, 8),                                                            |   | 4.       |

|    |                                                                                                                                                                                                            |                                                                       |                                    |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------|
| 21 | +ltree_chreq                                                                                                                                                                                               | PgReqTp2_03)                                                          |                                    |
| 22 | <b>test3(cch_con:B_3)</b><br>START T_dly(1000)                                                                                                                                                             |                                                                       | Ensure having sent<br>ImmAssRej_01 |
| 23 | ?TIMEOUT T_dly                                                                                                                                                                                             |                                                                       |                                    |
| 24 | +PreEnterIdleState_r02(C_Immass, TCV_slot,<br>TCV_tsc, C_TxInt_5, C_Max_2, C_S2, C_S4,<br>C_S6, TimingAdv(TSPX_TimadvB), C_ATT_0,<br>C_BABR_2, cch_con, C_BPM_7, C_T3212_0,<br>C_MCC_1, C_PLMN_1, C_LAC_1) |                                                                       |                                    |
| 25 | +ltree_waitSelectPaging                                                                                                                                                                                    |                                                                       |                                    |
| 26 | L!DL_UdatRqPg1Rq                                                                                                                                                                                           | PgReq1(TCV_PgCh,<br>TCV_Pgg,<br>PgReqTp1_01)                          | 5.                                 |
| 27 | +ltree_chreq                                                                                                                                                                                               |                                                                       |                                    |
| 28 | ?TIMEOUT T_dly                                                                                                                                                                                             |                                                                       |                                    |
| 29 | L!DL_UdatRqPg2Rq                                                                                                                                                                                           | PgReq2(TCV_PgCh,<br>TCV_Pgg,<br>PgReqTp2_01)                          | 5.                                 |
| 30 | +ltree_chreq                                                                                                                                                                                               |                                                                       |                                    |
| 31 | ?TIMEOUT T_dly                                                                                                                                                                                             |                                                                       |                                    |
| 32 | <b>ltree_chreq</b><br>L?DL_RacInChRq                                                                                                                                                                       | ChReq(ChRequest_0<br>2)                                               |                                    |
| 33 | L?DL_RacInChRq(TCV_Rqr.ra :=<br>DL_RacInChRq.msg.ecau_rrf, TCV_Rqr.fn :=<br>DL_RacInChRq.fn)                                                                                                               | ChReq(ChRequest_0<br>2)                                               | (P)                                |
| 34 | L!DL_UdatRqImmassRej START<br>T_dly(C_T_Wait)                                                                                                                                                              | ImmAssRej(TCV_agc<br>h,<br>ImmAsgnRej_01(TCV<br>_Rqr.ra, TCV_Rqr.fn)) | 5s wait                            |
| 35 | <b>ltree_waitSelectPaging</b><br>(TCV_Null := OM_PgFill(C_Cella, PgReqTp1Reorg))                                                                                                                           |                                                                       |                                    |
| 36 | START T_dly(C_T_Wait)                                                                                                                                                                                      |                                                                       | 5s wait                            |
| 37 | +CCCH_group_Paging_group(TCV_Ccd0A,<br>TSPX_IMSI)                                                                                                                                                          |                                                                       |                                    |
| 38 | +SelectPagingCh(C_Cella)                                                                                                                                                                                   |                                                                       |                                    |
| 39 | ?TIMEOUT T_dly                                                                                                                                                                                             |                                                                       |                                    |
| 40 | (TCV_Null := OM_PgFill(C_Cella,<br>PgReqTp1Norm))                                                                                                                                                          |                                                                       |                                    |
| 41 | START T_dly(3000)                                                                                                                                                                                          |                                                                       | 3s wait                            |
| 42 | ?TIMEOUT T_dly                                                                                                                                                                                             |                                                                       |                                    |

**Detailed Comments:**

1. Tx-integer = 5, Max-Retrans = 2 and CCCH-CONF = "1 basic physical channel used for CCCH not combined with SDCCHs", BS-AG-BLKS-RES and BS-PA-MFRMS are from PIXIT.
2. Page mode = "paging 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 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                   |     |          |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_6_2_3_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                   |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                   |     |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                   |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                   |     |          |
| <b>Comments:</b>            |       | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CRef                                                                                                              | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                   |     |          |
| 2                           |       | [(TSPX_CcchConf2 = C_cch_XnonComb)<br>AND(TSPX_AGBLKS2 > 0) AND(TSPX_AGBLKS2 < 8) OR (TSPX_CcchConf2 = C_cch_1Comb)<br>AND(TSPX_AGBLKS2 > 0) AND(TSPX_AGBLKS2 < 3)]                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                   |     | 4.       |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_S2, C_S4, C_S6, C_BCC, C_TxInt_5, C_Max_1, C_NECl_0, C_ATT_0, TimingAdv(TSPX_TimadvB), INT_TO_BIT(TSPX_AGBLKS2, 3), TSPX_CcchConf2, INT_TO_BIT((TSPX_PAMFRMS2-2), 3), C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                                                                                                   |     |          |
| 4                           | body  | (TCV_Null := OM_2Msgs(TCV_PgCh, TCV_Pgg, C_FmrAGB))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                   |     |          |
| 5                           |       | [TSPX_CcchConf2 = C_cch_XnonComb]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                   |     |          |
| 6                           |       | L!DL_UdatRqImmassx_sp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ImmAssXSp(TCV_PgCh, TCV_Pgg, ImmAsgnX_04(TSPX_TmSlTDef, TSPX_TscDef, TimingAdv(TSPX_TimadvB), TCV_chdescr_arfcn)) |     |          |
| 7                           |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                   |     |          |
| 8                           |       | [TSPX_CcchConf2 = C_cch_1Comb]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                   |     |          |
| 9                           |       | L!DL_UdatRqImmassx_sp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ImmAssXSp(TCV_PgCh, TCV_Pgg, ImmAsgnX_02(TCV_slot, TCV_tsc, TimingAdv(TSPX_TimadvB), TCV_chdescr_arfcn))          |     |          |
| 10                          |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                   |     |          |
| 11                          |       | [TSPX_CcchConf2 = C_cch_NotAllowed]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                   | I   | Reserved |
| 12                          |       | (((TSPX_CcchConf2 = C_cch_XnonComb) AND(TSPX_AGBLKS2 > 7)) OR ((TSPX_CcchConf2 = C_cch_1Comb) AND(TSPX_AGBLKS2 > 2)) OR(TSPX_AGBLKS2 < 1))                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                   | I   | 4.       |
| 13                          |       | <b>localtree</b><br>L!DL_UdatRqPg2Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | PgReq2(TCV_PgCh, TCV_Pgg, PgReqTp2_01)                                                                            |     | 3.       |
| 14                          |       | L?DL_RacInChRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ChReq(ChRequest_02)                                                                                               |     |          |
| 15                          |       | 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                                                                             |     |          |



### Test Case Dynamic Behaviour

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_26_6_2_5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Group:</b>          | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Purpose:</b>        | <p>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.</p> <p>2) To test that in such conditions the MS answers to the paging message on the timeslot on which the paging message was sent.</p>                                                                                                                                                                                                               |
| <b>Default:</b>        | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Comments:</b>       | <p>The configuration is Tx-integer = 5, Max-Retrans = 1 and CCCH-CONF, BS-AG-BLKS-RES and BS-PA-MFRMS are from PIXIT parameters.</p> <p>In the PIXITs CCCH-CONF is set to 3, BS-AG-BLKS-RES = 2 and BS-PA-MFRMS = 3.</p> <p>For this test to be useful, we need<br/> <math>((\text{IMSI mod } 10000) \text{ mod } (\text{cc} * (9 - \text{bsagres}) * \text{bspamfrms})) &gt; (9 - \text{bsagres}) * \text{bspamfrms}</math><br/>         ie. <math>((\text{IMSI mod } 1000) \text{ mod } 3*7*9) &gt; 7*9</math><br/>         thus if the last 3 digits of the IMSI are 065 then this test will work.</p> <p>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)</p> |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CRef                                                                                                                          | V   | 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_1, C_NECl_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) |                                                                                                                               |     |                         |
| 3  |       | +local_tree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                               |     |                         |
| 4  | body  | LIDL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_05)                                                                                        |     | 2.                      |
| 5  |       | L?DL_RaclnChRq (TCV_Rqr.ra := DL_RaclnChRq.msg.ecau_rrf, TCV_Rqr.fn := DL_RaclnChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ChReq_01(TCV_PgCh, ChRequest_12)                                                                                              |     | 3.                      |
| 6  |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                               |     | To match ChReq retrans. |
| 7  |       | +local_immass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                               |     |                         |
| 8  |       | L?DL_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PgRes(C_FACCHF_A_1, PagingRes_r02)                                                                                            | (P) |                         |
| 9  |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                               |     | Restore Normal default  |
| 10 |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                               |     |                         |
|    |       | <b>local_immass</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                               |     |                         |
| 11 |       | [TSPX_CcchConf4 = C_cch_XnonComb]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                               |     |                         |
| 12 |       | L!DL_UdatRqImmass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ImmAss(TCV_agch, ImmAsgn_r02(TCV_Rr, TCV_Fn, TSPX_SDCCH8SubF, TSPX_TmSlitDef, TSPX_TscDef, TimingAdv(30), TCV_chdescr_arfcn)) |     |                         |
| 13 |       | [TSPX_CcchConf4 = C_cch_1Comb]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                               |     |                         |
| 14 |       | L!DL_UdatRqImmass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc,                                          |     |                         |



|                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                    |                                               |          |                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------|-----------------|
| <p>15</p>                                                                                                                                                                                                                                                                                                                  | <p>[TSPX_CcchConf4 = C_cch_NotAllowed]</p> <p><b>local_tree</b></p>                                                                                                                                                                                                | <p>TCV_chdescr_arfcn,<br/>TimingAdv(30)))</p> | <p>I</p> | <p>Reserved</p> |
| <p>16</p>                                                                                                                                                                                                                                                                                                                  | <p>[TSPX_CcchConf4 = C_cch_1Comb]</p>                                                                                                                                                                                                                              |                                               |          |                 |
| <p>17</p>                                                                                                                                                                                                                                                                                                                  | <p>[TSPX_CcchConf4 = C_cch_XnonComb]</p>                                                                                                                                                                                                                           |                                               |          |                 |
| <p>18</p>                                                                                                                                                                                                                                                                                                                  | <p>+SDCCH8_A_1_nociph(TSPX_SDCCH8SubF,<br/>C_Immass, TSPX_TmSlitDef, TSPX_TscDef,<br/>ChMod_sign, FreqTCH(C_arfcn_tchA),<br/>FreqTCH(C_arfcn_tchAd), TimingAdv(30),<br/>INT_TO_BIT(TSPX_AGBLKS4, 3),<br/>TSPX_CcchConf4,<br/>INT_TO_BIT((TSPX_PAMFRMS4-2), 3))</p> |                                               |          |                 |
| <p><b>Detailed Comments:</b></p> <ol style="list-style-type: none"> <li>1. Tx-integer = 5, Max-Retrans = 1 CCCH-CONF, BS-AG-BLKS-RES and BS-PA-MFRMS are from PIXIT parameters.</li> <li>2. The first mobile identifier addresses the MS, the 2nd is omitted.</li> <li>3. To assign TSPX_SDCCH8SubF subchannel.</li> </ol> |                                                                                                                                                                                                                                                                    |                                               |          |                 |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |     |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_6_3_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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>Default:</b>             |       | OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CRef                  | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |     |          |
| 2                           |       | +BasicServiceMT(TSPX_MTBscSvcA, TSPX_MTChRateA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |     |          |
| 3                           |       | +IdleUpdated(C_E_suitable, C_CellA, C_SCH_A, C_BCCH_A_1, C_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_noReestablishment, 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_20, 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_2, C_LAC_3, C_LAC_4, C_LAC_5, C_LAC_6, C_LAC_7, C_LAC_8)                                                                                                                                                                                                                                                                                                                                      |                       |     | 1.       |
| 5                           |       | +FullRateCh_A_1(C_Ass, TSPX_TmSlitDef, 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)                                                                                                                                                                                                                                                                                                                                                                                                  |                       |     |          |
| 6                           |       | +PreEnterCCstateU10_r01(TimingAdv(30), TSPX_SDCCH4SubA, 0, 3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |     |          |
| 7                           | body  | (TCV_Null := OM_StartMsrReport(TCV_sacchTch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |     |          |
| 8                           |       | L?DL_UdatInMsrRpt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MsrRept(MsrReport_01) | (P) |          |
| 9                           |       | START T_dly1(960)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       |     | 960 ms   |
| 10                          |       | ?TIMEOUT T_dly1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       | (F) | 2.       |
| 11                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |     |          |
| 12                          |       | L?DL_UdatInMsrRpt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MsrRept(MsrReport_01) | (P) |          |
| 13                          |       | (TCV_Null := OM_StopMsrReport(TCV_sacchTch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |     |          |
| 14                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |     |          |
| 15                          |       | +local_execution2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       |     |          |
| 16                          |       | <b>local_execution2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |     |          |
| 17                          |       | +local_SysInfo5and6Sending                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                       |     | 1.       |
| 18                          |       | +PreEnterCCstateU10_r01(TimingAdv(30), TSPX_SDCCH4SubA, 0, 3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |     |          |
| 19                          |       | (TCV_Null := OM_StartMsrReport(TCV_sacchTch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |     |          |
| 20                          |       | L?DL_UdatInMsrRpt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MsrRept(MsrReport_01) |     |          |
| 21                          |       | START T_dly1(960)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       |     | 960 ms   |
| 22                          |       | ?TIMEOUT T_dly1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       | (F) | 2.       |
| 23                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |     |          |
| 24                          |       | L?DL_UdatInMsrRpt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MsrRept(MsrReport_01) | (P) |          |
| 25                          |       | (TCV_Null := OM_StopMsrReport(TCV_sacchTch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |     |          |

|                           |  |                                                                                                                                                                                                                                         |                                                                                                 |  |
|---------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--|
| 25                        |  | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                             |                                                                                                 |  |
|                           |  | <b>local_SysInfo5and6Sending</b>                                                                                                                                                                                                        |                                                                                                 |  |
| 26                        |  | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                                                                                                                |                                                                                                 |  |
| 27                        |  | LIDL_UdatRqSysinfo5                                                                                                                                                                                                                     | SysInfo5(TCV_sacch,<br>SysInf5(BcchFreqLst_24))                                                 |  |
| 28                        |  | LIDL_UdatRqSysinfo5bis                                                                                                                                                                                                                  | SysInfo5bis(TCV_sacch,<br>SysInf5bis(BcchFreqLst_26))                                           |  |
| 29                        |  | [TSPC_DCS]                                                                                                                                                                                                                              |                                                                                                 |  |
| 30                        |  | LIDL_UdatRqSysinfo5                                                                                                                                                                                                                     | SysInfo5(TCV_sacch,<br>SysInf5(BcchFreqLst_25))                                                 |  |
| 31                        |  | LIDL_UdatRqSysinfo5bis                                                                                                                                                                                                                  | SysInfo5bis(TCV_sacch,<br>SysInf5bis(BcchFreqLst_25))                                           |  |
| 32                        |  | LIDL_UdatRqSysinfo6<br>(DL_UdatRqSysinfo6.msg.co.pwrc := '1'B)                                                                                                                                                                          | SysInfo6(TCV_sacch,<br>SysInf6(C_ci_cellA,<br>C_MCC_1,<br>C_PLMN_1,<br>C_LAC_1,<br>CellOpt_01)) |  |
| <b>Detailed Comments:</b> |  | <ol style="list-style-type: none"> <li>1. No channels listed in the neighbour cells description.</li> <li>2. The interval between 2 successive layer 2 frames containing MEASUREMENT REPORT exceeds one layer 2 frame, fail.</li> </ol> |                                                                                                 |  |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                    |     |          |
|-----------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_6_3_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                    |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                    |     |          |
| <b>Purpose:</b>             |       | To test that, when the SS gives information about neighbouring cells, the MS reports appropriate results.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                    |     |          |
| <b>Default:</b>             |       | OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                    |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CRef                                               | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                    |     |          |
| 2                           |       | +BasicServiceMT(TSPX_MTBscSvcB, TSPX_MTChRateB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                    |     |          |
| 3                           |       | +IdleUpdated(C_E_suitable, C_CellA, C_SCH_A, C_BCCH_A_1, C_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_21, BcchFreqLst_Omit, BcchFreqLst_27, BcchFreqLst_Omit, C_noReestablishment, 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_1, C_MCC_1, C_PLMN_1, C_LAC_2, C_LAC_3, C_LAC_4, C_LAC_5, C_LAC_6, C_LAC_7, C_LAC_8)                                                                                                                                                                                                                                                                                                                                         |                                                    |     |          |
| 5                           |       | +FullRateCh_A_1(C_Ass, TSPX_TmSitDef, 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)                                                                                                                                                                                                                                                                                                                                                                                                      |                                                    |     |          |
| 6                           | body  | +local_execution(1, 2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    |     |          |
| 7                           |       | +local_SendSyInfo5and6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    |     |          |
| 8                           |       | +local_execution(1, 3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    |     |          |
|                             |       | <b>local_execution(indx1, indx2:INTEGER)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                    |     |          |
| 9                           |       | +PreEnterCCstateU10_r01(TimingAdv(30), TSPX_SDCCH4SubA, 0, 3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                    |     |          |
| 10                          |       | (TCV_Null := OM_StartMsrReport(TCV_sacchTch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                    |     |          |
| 11                          |       | L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | MsrRept(MsrReport_03)                              |     |          |
| 12                          |       | +ChkMsrmntRpt(indx1, indx2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                    |     |          |
| 13                          |       | START T_dly1(960)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                    |     | 960 ms   |
| 14                          |       | ?TIMEOUT T_dly1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                    | (F) | 1.       |
| 15                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                    |     |          |
| 16                          |       | L?DL_UdatInMsrRpt (TCV_MsrRes := DL_UdatInMsrRpt.msg.msrr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | MsrRept(MsrReport_03)                              |     |          |
| 17                          |       | +ChkMsrmntRpt(indx1, indx2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                    |     |          |
| 18                          |       | (TCV_Null := OM_StopMsrReport(TCV_sacchTch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                    |     |          |
| 19                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                    |     |          |
|                             |       | <b>local_SendSyInfo5and6</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                    |     |          |
| 20                          |       | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                    |     |          |
| 21                          |       | L!DL_UdatRqSysinfo5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SysInfo5(TCV_sacch, SysInf5(BcchFreqLst_28))       |     |          |
| 22                          |       | LIDL_UdatRqSysinfo5bis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | SysInfo5bis(TCV_sacch, SysInf5bis(BcchFreqLst_30)) |     |          |
| 23                          |       | [TSPC_DCS]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                    |     |          |

|                                                                                                                                              |                                                                |                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------------|
| 24                                                                                                                                           | LIDL_UdatRqSysinfo5                                            | SysInfo5(TCV_sacch, SysInf5(BcchFreqLst_29))                                     |
| 25                                                                                                                                           | LIDL_UdatRqSysinfo5bis                                         | SysInfo5bis(TCV_sacch, SysInf5bis(BcchFreqLst_31))                               |
| 26                                                                                                                                           | LIDL_UdatRqSysinfo6<br>(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)) |
| <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>               |       | GSM_L3_MS_v4180/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>Default:</b>             |       | OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                           |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CRef                      | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                           |     |          |
| 2                           |       | +BasicServiceMT(TSPX_MTBscSvcC,<br>TSPX_MTChRateC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                           |     |          |
| 3                           |       | +IdleUpdated(C_E_suitable, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_02,<br>CellChDes_03, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_22, BcchFreqLst_Omit,<br>BcchFreqLst_32, BcchFreqLst_Omit,<br>C_noReestablishment, C_BCC_3, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubA,<br>TSPX_CKSNDf, TSPX_RANDDef, C_arfcn_2,<br>C_arfcnAd_2, TSPX_IMSI, C_Test_fh,<br>C_NCCP_2) |                           |     |          |
| 4                           |       | +StartMultiCells_02(BcchFreqLst_22,<br>BcchFreqLst_32, C_Immass, TCV_slot,<br>TCV_tsc, TimingAdv(30), C_ATT_0,<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_2,<br>C_LAC_3, C_LAC_4, C_LAC_5, C_LAC_6,<br>C_LAC_7, C_LAC_8)                                                                                                                                                                                                                                                                                                                                                                 |                           |     |          |
| 5                           |       | +FullRateCh_A_1(C_Ass, TSPX_TmSlitDef,<br>TSPX_TscDef, ChMod_speech,<br>FreqTCH_omit, FreqTCH_omit,<br>C_arfcn_tchA, C_arfcn_tchAd,<br>TimingAdv(30), C_BABR_0, C_cch_1Comb,<br>C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |     |          |
| 6                           |       | +PreEnterCCstateU10_r01(TimingAdv(30),<br>TSPX_SDCCH4SubA, 0, 3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                           |     |          |
| 7                           |       | (TCV_Null :=<br>OM_StartMsrReport(TCV_sacchTch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                           |     |          |
| 8                           |       | L?DL_UdatInMsrRpt (TCV_MsrRes :=<br>DL_UdatInMsrRpt.msg.msrr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MsrRept(MsrReport_0<br>4) |     |          |
| 9                           |       | +ChkMsrmntRpt(4, 5)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                           |     |          |
| 10                          |       | START T_dly1(960)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                           |     | 960 ms   |
| 11                          |       | ?TIMEOUT T_dly1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           | (F) | 1.       |
| 12                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           |     |          |
| 13                          |       | L?DL_UdatInMsrRpt<br>(TCV_MsrRes :=<br>DL_UdatInMsrRpt.msg.msrr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MsrRept(MsrReport_0<br>4) |     |          |
| 14                          |       | +ChkMsrmntRpt(4, 5)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                           |     |          |
| 15                          |       | (TCV_Null :=<br>OM_StopMsrReport(TCV_sac<br>chTch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                           |     |          |
| 16                          |       | +PostMainLinkRel(TCV_ch<br>Tch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           |     |          |
| 17                          |       | +local_execution2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                           |     |          |
|                             |       | <b>local_execution2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                           |     |          |
| 18                          |       | +local_SendSysinfo5and6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                           |     |          |
| 19                          |       | +PreEnterCCstateU10_r01(TimingAdv(30),<br>TSPX_SDCCH4SubA, 0, 3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                           |     |          |
| 20                          |       | (TCV_Null :=<br>OM_StartMsrReport(TCV_sacchTch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                           |     |          |
| 21                          |       | L?DL_UdatInMsrRpt (TCV_MsrRes :=<br>DL_UdatInMsrRpt.msg.msrr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MsrRept(MsrReport_0<br>4) |     |          |
| 22                          |       | +ChkMsrmntRpt(4, 5)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                           |     |          |
| 23                          |       | START T_dly1(960)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                           |     | 960 ms   |
| 24                          |       | ?TIMEOUT T_dly1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           | (F) | 1.       |

|                           |  |                                                                                                                    |                                                                                                 |  |
|---------------------------|--|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--|
| 25                        |  | +PostMainLinkRel(TCV_chTch)                                                                                        |                                                                                                 |  |
| 26                        |  | L?DL_UdatInMsrRpt(TCV_MsrRes :=<br>DL_UdatInMsrRpt.msg.msrr)                                                       | MsrRept(MsrReport_0<br>4)                                                                       |  |
| 27                        |  | +ChkMsrMntRpt(4, 5)                                                                                                |                                                                                                 |  |
| 28                        |  | (TCV_Null :=<br>OM_StopMsrReport(TCV_sacchTch))                                                                    |                                                                                                 |  |
| 29                        |  | +PostMainLinkRel(TCV_chTch)                                                                                        |                                                                                                 |  |
|                           |  | <b>local_SendSysinfo5and6</b>                                                                                      |                                                                                                 |  |
| 30                        |  | [TSPC_PGSM OR TSPC_EGSM]                                                                                           |                                                                                                 |  |
| 31                        |  | LIDL_UdatRqSysinfo5                                                                                                | SysInfo5(TCV_sacch,<br>SysInf5(BcchFreqLst_<br>33))                                             |  |
| 32                        |  | LIDL_UdatRqSysinfo5bis                                                                                             | SysInfo5bis(TCV_sac<br>ch,<br>SysInf5bis(BcchFreqL<br>st_30))                                   |  |
| 33                        |  | [TSPC_DCS]                                                                                                         |                                                                                                 |  |
| 34                        |  | LIDL_UdatRqSysinfo5                                                                                                | SysInfo5(TCV_sacch,<br>SysInf5(BcchFreqLst_<br>34))                                             |  |
| 35                        |  | LIDL_UdatRqSysinfo5bis                                                                                             | SysInfo5bis(TCV_sac<br>ch,<br>SysInf5bis(BcchFreqL<br>st_34d))                                  |  |
| 36                        |  | LIDL_UdatRqSysinfo6<br>(DL_UdatRqSysinfo6.msg.co.pwrc := '1'B)                                                     | SysInfo6(TCV_sacch,<br>SysInf6(C_ci_cellA,<br>C_MCC_1,<br>C_PLMN_1,<br>C_LAC_1,<br>CellOpt_01)) |  |
| <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_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                         |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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>Default:</b>             |       | OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                         |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CRef                                    | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                         |     |          |
| 2                           |       | +BasicServiceMT(TSPX_MTBscSvcJ, TSPX_MTChRateJ)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                         |     |          |
| 3                           |       | +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_cellA, C_MCC_1, C_PLMN_1, C_LAC_8, CellOpt_01, CellChDes_11, CellChDes_11d, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noReestablishment, C_BCC_1, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, 44, 810, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                         |     |          |
| 4                           |       | +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_3, C_LAC_4, C_LAC_5, C_LAC_6, C_LAC_7, C_LAC_2)                                                                                                                                                                                                                                                                                                                  |                                         |     |          |
| 5                           |       | +Varinit_fixH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         |     |          |
| 6                           |       | +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)                                                                                                                                                                                                                                                                                                                                                                                |                                         |     |          |
| 7                           |       | +FullRateCh_H_1(C_Ass, TSPX_TmSlTC, TSPX_TscC, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         |     |          |
| 8                           |       | +PreEnterCCstateU10_r01(TimingAdv(30), TSPX_SDCCH4SubDef, 0, 3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                         |     |          |
| 9                           |       | +local_HndovCmd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                         |     |          |
| 10                          |       | +local_RcvHndovAcc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                         |     |          |
| 11                          |       | L?DL_EstIn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | DLEstInd(TCV_chTch1)                    |     |          |
| 12                          |       | L?DL_DatInHoCom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | HndOvCmpRcv(TCV_chTch1, HandOverCmp_01) |     |          |
| 13                          |       | +local_continue1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                         |     |          |
| 14                          |       | <b>local_continue1</b><br>(TCV_Null :=<br>OM_StartMsrReport(TCV_sacchTch_H))                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                         |     |          |
| 15                          |       | [NOT TSPC_TranspDataOnly]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                         |     |          |
| 16                          | body  | L?DL_UdatInMsrRpt (TCV_MsrRes :=<br>DL_UdatInMsrRpt.msg.msrr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MsrRept(MsrReport_05)                   |     |          |
| 17                          |       | +ChkMsrmntRpt(6, 7)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                         |     |          |
| 18                          |       | START T_dly1(960)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                         |     | 960 ms   |
| 19                          |       | ?TIMEOUT T_dly1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                         | (F) | 1.       |
| 20                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                         |     |          |
| 21                          |       | L?DL_UdatInMsrRpt (TCV_MsrRes :=<br>DL_UdatInMsrRpt.msg.msrr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MsrRept(MsrReport_05)                   |     |          |
| 22                          |       | +ChkMsrmntRpt(6, 7)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                         |     |          |
| 23                          |       | (TCV_Null :=<br>OM_StopMsrReport(TCV_sacchTch_H)<br>)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                         |     |          |
| 24                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                         |     |          |



|    |                                                                  |                                                |     |        |
|----|------------------------------------------------------------------|------------------------------------------------|-----|--------|
| 25 | +local_execution2                                                |                                                |     |        |
| 26 | [TSPC_TranspDataOnly]                                            |                                                |     |        |
| 27 | L?DL_UdatInMsrRpt (TCV_MsrRes :=<br>DL_UdatInMsrRpt.msg.msrr)    | MsrRept(MsrReport_0<br>6)                      |     |        |
| 28 | +ChkMsrmntRpt(6, 7)                                              |                                                |     |        |
| 29 | START T_dly1(960)                                                |                                                |     | 960 ms |
| 30 | ?TIMEOUT T_dly1                                                  |                                                | (F) | 1.     |
| 31 | +PostMainLinkRel(TCV_chTch)                                      |                                                |     |        |
| 32 | L?DL_UdatInMsrRpt (TCV_MsrRes :=<br>DL_UdatInMsrRpt.msg.msrr)    | MsrRept(MsrReport_0<br>6)                      |     |        |
| 33 | +ChkMsrmntRpt(6, 7)                                              |                                                |     |        |
| 34 | (TCV_Null :=<br>OM_StopMsrReport(TCV_sacchTch_H)<br>)            |                                                |     |        |
| 35 | +PostMainLinkRel(TCV_chTch)                                      |                                                |     |        |
| 36 | +local_execution2                                                |                                                |     |        |
|    | <b>local_execution2</b>                                          |                                                |     |        |
| 37 | +local_SendSysInfo5and6                                          |                                                |     |        |
| 38 | START T_dly(20000)                                               |                                                |     | 2.     |
| 39 | ?TIMEOUT T_dly                                                   |                                                |     |        |
| 40 | +PreEnterCCstateU10_r01(TimingAdv(30),<br>TSPX_SDCCH4SubA, 0, 3) |                                                |     |        |
| 41 | +local_HndovCmd                                                  |                                                |     |        |
| 42 | +local_RcvHndovAcc                                               |                                                |     |        |
| 43 | L?DL_EstIn                                                       | DLEstIn(TCV_chTch<br>1)                        |     |        |
| 44 | L?DL_DatInHoCom                                                  | HndOvCmpRcv(TCV_<br>chTch1,<br>HandOverCmp_01) |     |        |
| 45 | +local_continue2                                                 |                                                |     |        |
|    | <b>local_continue2</b>                                           |                                                |     |        |
| 46 | (TCV_Null :=<br>OM_StartMsrReport(TCV_sacchTch_H))               |                                                |     |        |
| 47 | [NOT TSPC_TranspDataOnly]                                        |                                                |     |        |
| 48 | L?DL_UdatInMsrRpt (TCV_MsrRes :=<br>DL_UdatInMsrRpt.msg.msrr)    | MsrRept(MsrReport_0<br>5)                      |     |        |
| 49 | +ChkMsrmntRpt(6, 7)                                              |                                                |     |        |
| 50 | START T_dly1(960)                                                |                                                |     | 960 ms |
| 51 | ?TIMEOUT T_dly1                                                  |                                                | (F) | 1.     |
| 52 | +PostMainLinkRel(TCV_chTch)                                      |                                                |     |        |
| 53 | L?DL_UdatInMsrRpt (TCV_MsrRes :=<br>DL_UdatInMsrRpt.msg.msrr)    | MsrRept(MsrReport_0<br>5)                      |     |        |
| 54 | +ChkMsrmntRpt(6, 7)                                              |                                                |     |        |
| 55 | (TCV_Null :=<br>OM_StopMsrReport(TCV_sacchTch_H)<br>)            |                                                |     |        |
| 56 | +PostMainLinkRel(TCV_chTch)                                      |                                                |     |        |
| 57 | +local_execution2                                                |                                                |     |        |
| 58 | [TSPC_TranspDataOnly]                                            |                                                |     |        |
| 59 | L?DL_UdatInMsrRpt (TCV_MsrRes :=<br>DL_UdatInMsrRpt.msg.msrr)    | MsrRept(MsrReport_0<br>6)                      |     |        |
| 60 | +ChkMsrmntRpt(6, 7)                                              |                                                |     |        |
| 61 | START T_dly1(960)                                                |                                                |     | 960 ms |
| 62 | ?TIMEOUT T_dly1                                                  |                                                | (F) | 1.     |
| 63 | +PostMainLinkRel(TCV_chTch)                                      |                                                |     |        |
| 64 | L?DL_UdatInMsrRpt (TCV_MsrRes :=<br>DL_UdatInMsrRpt.msg.msrr)    | MsrRept(MsrReport_0<br>6)                      |     |        |
| 65 | +ChkMsrmntRpt(6, 7)                                              |                                                |     |        |
| 66 | (TCV_Null :=<br>OM_StopMsrReport(TCV_sacchTch_H)<br>)            |                                                |     |        |
| 67 | +PostMainLinkRel(TCV_chTch)                                      |                                                |     |        |
|    | <b>local_RcvHndovAcc</b>                                         |                                                |     |        |
| 68 | L?DL_RaInHoacc                                                   | HndOvAccRcv(TCV_c<br>hTch,                     |     |        |

|    |                                                                                                          |                                                                                                                                                                                                                              |
|----|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 69 | L?DL_RaInHoacc                                                                                           | HandOverAcc_01<br>HndOvAccRcv(TCV_c<br>hTch,<br>HandOverAcc_01)                                                                                                                                                              |
| 70 | L?DL_RaInHoacc                                                                                           | HndOvAccRcv(TCV_c<br>hTch,<br>HandOverAcc_01)                                                                                                                                                                                |
| 71 | L?DL_RaInHoacc                                                                                           | HndOvAccRcv(TCV_c<br>hTch,<br>HandOverAcc_01)                                                                                                                                                                                |
| 72 | <b>local_HndovCmd</b><br>(TCV_Tchtype := '00001'B)                                                       |                                                                                                                                                                                                                              |
| 73 | [TSPC_PGSM OR TSPC_EGSM]                                                                                 |                                                                                                                                                                                                                              |
| 74 | LIDL_DatRqHoCmd                                                                                          | HndOvSnd(TCV_chT<br>ch,<br>HandOverCmd(TCV_<br>Tchtype, TCV_slot,<br>TCV_tsc, C_arfcnA,<br>C_arfcn_tchA,<br>TSPX_HoRefA, 7,<br>C_not_report_otd,<br>C_synchronized,<br>RelTmdDif_omit,<br>TimingAdv_omit,<br>CphMod_omit))   |
| 75 | [TSPC_DCS]                                                                                               |                                                                                                                                                                                                                              |
| 76 | LIDL_DatRqHoCmd                                                                                          | HndOvSnd(TCV_chT<br>ch,<br>HandOverCmd(TCV_<br>Tchtype, TCV_slot,<br>TCV_tsc, C_arfcnAd,<br>C_arfcn_tchAd,<br>TSPX_HoRefA, 3,<br>C_not_report_otd,<br>C_synchronised,<br>RelTmdDif_omit,<br>TimingAdv_omit,<br>CphMod_omit)) |
| 77 | <b>local_SendSysInfo5and6</b><br>[TSPC_PGSM OR TSPC_EGSM]                                                |                                                                                                                                                                                                                              |
| 78 | LIDL_UdatRqSysinfo5                                                                                      | SysInfo5(TCV_sacch,<br>SysInf5(BcchFreqLst_<br>36))                                                                                                                                                                          |
| 79 | LIDL_UdatRqSysinfo5bis                                                                                   | SysInfo5bis(TCV_sac<br>ch,<br>SysInf5bis(BcchFreqL<br>st_26))                                                                                                                                                                |
| 80 | LIDL_UdatRqSysinfo6<br>(DL_UdatRqSysinfo6.msg.co.pwrc := '1'B)                                           | SysInfo6(TCV_sacch,<br>SysInf6(C_ci_cellA,<br>C_MCC_1,<br>C_PLMN_1,<br>C_LAC_1,<br>CellOpt_03))                                                                                                                              |
| 81 | [TSPC_DCS]                                                                                               |                                                                                                                                                                                                                              |
| 82 | LIDL_UdatRqSysinfo5                                                                                      | SysInfo5(TCV_sacch,<br>SysInf5(BcchFreqLst_<br>29))                                                                                                                                                                          |
| 83 | LIDL_UdatRqSysinfo5bis                                                                                   | SysInfo5bis(TCV_sac<br>ch,<br>SysInf5bis(BcchFreqL<br>st_51))                                                                                                                                                                |
| 84 | LIDL_UdatRqSysinfo6<br>(DL_UdatRqSysinfo6.msg.co.pwrc := '1'B,<br>DL_UdatRqSysinfo6.msg.co.dtx := '01'B) | SysInfo6(TCV_sacch,<br>SysInf6(C_ci_cellA,<br>C_MCC_1,<br>C_PLMN_1,<br>C_LAC_1,<br>CellOpt_03))                                                                                                                              |

**Detailed Comments:**

- The interval between 2 successive layer 2 frames containing MEASUREMENT REPORT exceeds one layer 2 frame, fail.
- To allow the MS camp in cell H again.



| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                           |     |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_6_3_5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                           |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                           |     |          |
| <b>Purpose:</b>             |       | To test that when the SS gives information about neighbouring cells the MS reports appropriate results.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                           |     |          |
| <b>Default:</b>             |       | OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                           |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CRef                      | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                           |     |          |
| 2                           |       | +BasicServiceMT(TSPX_MTBscSvcH,<br>TSPX_MTChRateH)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                           |     |          |
| 3                           |       | +IdleUpdated(C_E_suitable, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_02,<br>CellChDes_03, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_37, BcchFreqLst_Omit,<br>BcchFreqLst_38, BcchFreqLst_Omit,<br>C_noReestablishment, C_BCC_3, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubA,<br>TSPX_CKSNDDef, TSPX_RANDDef, C_arfcn_2,<br>C_arfcnAd_3, TSPX_IMSI, C_Test_fh,<br>C_NCCP_2) |                           |     |          |
| 4                           |       | +StartCellB(28, 8, 815, C_Immass, TCV_slot,<br>TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1,<br>C_NECI_0, C_ATT_0, C_BABR_0,<br>C_cch_1Comb, C_BPM_3, C_T3212_0,<br>C_MCC_1, C_PLMN_1, C_LAC_2,<br>CellChDes_05, CellChDes_05d,<br>BcchFreqLst_37, BcchFreqLst_38,<br>C_noReestablishment, C_BCC, C_NCC)                                                                                                                                                                                                                                                                                                                    |                           |     |          |
| 5                           |       | +FullRateCh_A_1(C_Ass, TSPX_TmSttDef,<br>TSPX_TscDef, ChMod_speech,<br>FreqTCH_omit, FreqTCH_omit,<br>C_arfcn_tchA, C_arfcn_tchAd,<br>TimingAdv(30), C_BABR_0, C_cch_1Comb,<br>C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                                   |                           |     |          |
| 6                           |       | +local_SysInfo5bisSending                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                           |     |          |
| 7                           | body  | +PreEnterCCstateU10_r01(TimingAdv(30<br>) , TSPX_SDCCH4SubA, 0, 3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                           |     |          |
| 8                           |       | (TCV_Null :=<br>OM_StartMsrReport(TCV_sacchTch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           |     |          |
| 9                           |       | L?DL_UdatInMsrRpt (TCV_MsrRes :=<br>DL_UdatInMsrRpt.msg.msrr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MsrRept(MsrReport_0<br>7) |     |          |
| 10                          |       | +ChkMsrmntRpt(8, 9)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                           |     |          |
| 11                          |       | +local_continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                           |     |          |
| 12                          |       | <b>local_continue</b><br>START T_dly1(960)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |     | 960 ms   |
| 13                          |       | ?TIMEOUT T_dly1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                           | (F) | 1.       |
| 14                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                           |     |          |
| 15                          |       | L?DL_UdatInMsrRpt (TCV_MsrRes :=<br>DL_UdatInMsrRpt.msg.msrr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MsrRept(MsrReport_0<br>7) |     |          |
| 16                          |       | +ChkMsrmntRpt(8, 9)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                           |     |          |
| 17                          |       | (TCV_Null :=<br>OM_StopMsrReport(TCV_sacchTch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                           |     |          |
| 18                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                           |     |          |
| 19                          |       | +local_execution2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           |     |          |
| 20                          |       | <b>local_execution2</b><br>+local_SysInfo5and6Sending(BcchFreqLst_41,<br>BcchFreqLst_39, BcchFreqLst_42)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |     | 1.       |
| 21                          |       | +PreEnterCCstateU10_r01(TimingAdv(30),<br>TSPX_SDCCH4SubA, 0, 3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           |     |          |
| 22                          |       | (TCV_Null :=<br>OM_StartMsrReport(TCV_sacchTch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           |     |          |
| 23                          |       | L?DL_UdatInMsrRpt (TCV_MsrRes :=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MsrRept(MsrReport_0       |     |          |

|                           |                                                                                                          |                                                                                                 |     |        |
|---------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----|--------|
| 24                        | DL_UdatInMsrrpt.msg.msrr)                                                                                | 7)                                                                                              |     |        |
| 25                        | +ChkMsrmntRpt(8, 9)                                                                                      |                                                                                                 |     |        |
| 26                        | START T_dly1(960)                                                                                        |                                                                                                 |     | 960 ms |
| 27                        | ?TIMEOUT T_dly1                                                                                          |                                                                                                 | (F) | 1.     |
| 28                        | +PostMainLinkRel(TCV_chTch)                                                                              |                                                                                                 |     |        |
| 29                        | L?DL_UdatInMsrrpt (TCV_MsrRes :=<br>DL_UdatInMsrrpt.msg.msrr)                                            | MsrRept(MsrReport_0<br>7)                                                                       |     |        |
| 30                        | +ChkMsrmntRpt(8, 9)                                                                                      |                                                                                                 |     |        |
| 31                        | (TCV_Null :=<br>OM_StopMsrrpt(TCV_sacchTch))                                                             |                                                                                                 |     |        |
| 32                        | +PostMainLinkRel(TCV_chTch)<br>+local_execution3                                                         |                                                                                                 |     |        |
| 33                        | <b>local_execution3</b><br>+local_SysInfo5and6Sending(BcchFreqLst_43,<br>BcchFreqLst_40, BcchFreqLst_44) |                                                                                                 |     | 1.     |
| 34                        | +PreEnterCCstateU10_r01(TimingAdv(30),<br>TSPX_SDCCH4SubA, 0, 3)                                         |                                                                                                 |     |        |
| 35                        | (TCV_Null :=<br>OM_StartMsrrpt(TCV_sacchTch))                                                            |                                                                                                 |     |        |
| 36                        | L?DL_UdatInMsrrpt (TCV_MsrRes :=<br>DL_UdatInMsrrpt.msg.msrr)                                            | MsrRept(MsrReport_0<br>7)                                                                       |     |        |
| 37                        | +ChkMsrmntRpt(8, 10)                                                                                     |                                                                                                 |     |        |
| 38                        | START T_dly1(960)                                                                                        |                                                                                                 |     | 960 ms |
| 39                        | ?TIMEOUT T_dly1                                                                                          |                                                                                                 | (F) | 1.     |
| 40                        | +PostMainLinkRel(TCV_chTch)                                                                              |                                                                                                 |     |        |
| 41                        | L?DL_UdatInMsrrpt (TCV_MsrRes :=<br>DL_UdatInMsrrpt.msg.msrr)                                            | MsrRept(MsrReport_0<br>7)                                                                       |     |        |
| 42                        | +ChkMsrmntRpt(8, 10)                                                                                     |                                                                                                 |     |        |
| 43                        | (TCV_Null :=<br>OM_StopMsrrpt(TCV_sacchTch))                                                             |                                                                                                 |     |        |
| 44                        | +PostMainLinkRel(TCV_chTch)                                                                              |                                                                                                 |     |        |
| 45                        | <b>local_SysInfo5and6Sending(ba1, ba2, ba3 :NCD)</b><br>[TSPC_PGSM OR TSPC_EGSM]                         |                                                                                                 |     |        |
| 46                        | LIDL_UdatRqSysinfo5bis                                                                                   | SysInfo5bis(TCV_sac<br>ch, SysInf5bis(ba1))                                                     |     |        |
| 47                        | [TSPC_DCS]                                                                                               |                                                                                                 |     |        |
| 48                        | LIDL_UdatRqSysinfo5                                                                                      | SysInfo5(TCV_sacch,<br>SysInf5(ba2))                                                            |     |        |
| 49                        | LIDL_UdatRqSysinfo5bis                                                                                   | SysInfo5bis(TCV_sac<br>ch, SysInf5bis(ba3))                                                     |     |        |
| 50                        | LIDL_UdatRqSysinfo6                                                                                      | SysInfo6(TCV_sacch,<br>SysInf6(C_ci_cellA,<br>C_MCC_1,<br>C_PLMN_1,<br>C_LAC_1,<br>CellOpt_06)) |     |        |
| 51                        | <b>local_SysInfo5bisSending</b><br>[TSPC_PGSM OR TSPC_EGSM]                                              |                                                                                                 |     |        |
| 52                        | LIDL_UdatRqSysinfo5bis                                                                                   | SysInfo5bis(TCV_sac<br>ch,<br>SysInf5bis(BcchFreqL<br>st_38))                                   |     |        |
| 53                        | [TSPC_DCS]                                                                                               |                                                                                                 |     |        |
| 54                        | LIDL_UdatRqSysinfo5bis                                                                                   | SysInfo5bis(TCV_sac<br>ch,<br>SysInf5bis(BcchFreqL<br>st_37))                                   |     |        |
| <b>Detailed Comments:</b> |                                                                                                          |                                                                                                 |     |        |

### Test Case Dynamic Behaviour

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_26_6_4_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Group:</b>          | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purpose:</b>        | <p>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</p> <ol style="list-style-type: none"> <li>1.1 from non-hopping SDCCH to hopping TCH/F using a different timeslot</li> <li>1.2 from hopping TCH/F to non-hopping TCH/F using a different timeslot</li> <li>1.3 from non-hopping TCH/F to non-hopping TCH/F using a different timeslot</li> <li>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</li> <li>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</li> <li>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.</li> </ol> <p>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.</p> <p>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.</p> <p>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.</p> |
| <b>Default:</b>        | OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CRef                                   | V  | 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_r03, CellChDes_r01, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_02, BcchFreqLst_01, BcchFreqLst_04, BcchFreqLst_48, C_Reestablishment, 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_TmSlitDef, TSPX_TscDef, ChMod_sign, FreqBCCH(C_arfcnA), FreqBCCH(C_arfcnAd_4), TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                        |                                        | 2. |          |
| 4  |       | LIDL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01) |    |          |
| 5  |       | L?DL_RaInChRq (TCV_Rqr.ra := DL_RaInChRq.msg.ecau_rrf, TCV_Rqr.fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ChReq(ChRequest_17)                    |    |          |
| 6  |       | +ltree_ImmAss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        |    |          |
| 7  |       | L?DL_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PagingRes(PagingRes_01)                |    |          |
| 8  |       | +localtree1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                        |    |          |
| 9  |       | +localtree2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                        |    |          |
|    |       | <b>localtree1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |    |          |
| 10 |       | +ltree_Asgn1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                        |    |          |
| 11 |       | +ltree_AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        |    |          |

|    |                                                                             |                                                                           |     |
|----|-----------------------------------------------------------------------------|---------------------------------------------------------------------------|-----|
| 12 | (TCV_L1Head := OM_GetL1Hd(TCV_chTch),<br>TCV_Pwrlvl := TCV_L1Head.mspwrlvl) |                                                                           |     |
| 13 | [TCV_Pwrlvl <> '0000111'B]                                                  |                                                                           | (F) |
| 14 | [TCV_Pwrlvl = '0000111'B]                                                   |                                                                           | (P) |
| 15 | +ltree_Asgn2                                                                |                                                                           |     |
| 16 | +ltree_AssCh_complete(TCV_chTch,<br>TCV_chTch1, TCV_AssCmd)                 |                                                                           |     |
|    | <b>localtree2</b>                                                           |                                                                           |     |
| 17 | (TCV_Null :=OM_NoL2Ack(C_I, 1, TCV_chTch1))                                 |                                                                           |     |
| 18 | LIDL_DatRqAuthRq                                                            | AuthReq(TCV_ch,<br>AuthRequest(TSPX_<br>CKSNDef,<br>TSPX_RANDDef))        |     |
| 19 | L?DL_DatInAuthRes (TCV_Mt :=<br>DL_DatInAuthRes.msg.mt)                     | AuthRes(AuthRespon<br>se)                                                 |     |
| 20 | +ltree_Asgn3                                                                |                                                                           |     |
| 21 | +ltree_AssCh_complete(TCV_chTch1,<br>TCV_chTch, TCV_AssCmd)                 |                                                                           |     |
| 22 | L?DL_DatInAuthRes (TCV_Mt1 :=<br>DL_DatInAuthRes.msg.mt)                    | AuthRes(AuthRespon<br>se)                                                 |     |
| 23 | [TCV_Mt <> TCV_Mt1]                                                         |                                                                           | (F) |
| 24 | [TCV_Mt = TCV_Mt1]                                                          |                                                                           | (P) |
| 25 | +continue1                                                                  |                                                                           |     |
|    | <b>continue1</b>                                                            |                                                                           |     |
| 26 | +ltree_Asgn4                                                                |                                                                           |     |
| 27 | +ltree_AssCh_complete(TCV_chTch, TCV_chTch1,<br>TCV_AssCmd)                 |                                                                           |     |
| 28 | [TCV_K >17]                                                                 |                                                                           | (F) |
| 29 | [(TCV_K >= 0) AND (TCV_K <=17)]                                             |                                                                           | (P) |
| 30 | [TCV_CC AND(NOT TSPC_DualRate)]                                             |                                                                           |     |
| 31 | +PostMainLinkRel(TCV_chTch1)                                                |                                                                           |     |
| 32 | [TSPC_DualRate]                                                             |                                                                           |     |
| 33 | +gofurther                                                                  |                                                                           |     |
|    | <b>gofurther</b>                                                            |                                                                           |     |
| 34 | +ltree_Asgn5                                                                |                                                                           |     |
| 35 | +ltree_AssCh_complete(TCV_chTch1, TCV_chTch,<br>TCV_AssCmd)                 |                                                                           |     |
| 36 | +ltree_Asgn6                                                                |                                                                           |     |
| 37 | +ltree_AssCh_complete(TCV_chTch,<br>TCV_chTch1, TCV_AssCmd)                 |                                                                           |     |
| 38 | +ltree_Asgn7                                                                |                                                                           |     |
| 39 | +ltree_AssCh_complete(TCV_chTch1,<br>TCV_chTch, TCV_AssCmd)                 |                                                                           |     |
| 40 | +PostMainLinkRel(TCV_chTch)                                                 |                                                                           |     |
|    | <b>ltree_AssCh_complete(oldch,newch:LOGICCH;<br/>pdu_ass: ASS_CMD_PDU)</b>  |                                                                           |     |
| 41 | L!DL_DatRqAssCmd START T_dlyAss                                             | AssCmd(oldch,pdu_a<br>ss)                                                 |     |
| 42 | ?TIMEOUT T_dlyAss                                                           |                                                                           | (F) |
| 43 | +PostLinkRelEnd(oldch)                                                      |                                                                           |     |
| 44 | L?DL_EstIn (TCV_Fn1 := DL_EstIn.fn) CANCEL<br>T_dlyAss                      | DLEstInd(newch)                                                           |     |
| 45 | (TCV_Fn := OM_ReturnFn(oldch))                                              |                                                                           |     |
| 46 | L?DL_DatInAssCom                                                            | AssCmp(newch,<br>AsgnCmp_02)                                              |     |
| 47 | L!MDL_RelRq                                                                 | MDLRelReq(oldch)                                                          |     |
| 48 | +Check_Time(C_T_AssCmd)                                                     |                                                                           |     |
|    | <b>ltree_ImmAss</b>                                                         |                                                                           |     |
| 49 | [TSPC_PGSM OR TSPC_EGSM]                                                    |                                                                           |     |
| 50 | LIDL_UdatRqImmAss                                                           | ImmAss(TCV_agch,<br>ImmAsgn_sdcch8(TC<br>V_Rr, TCV_Fn,<br>TSPX_TmSlitDef, |     |

|    |                                                                                                                                                                                      |                                                                                                                                                   |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
|    |                                                                                                                                                                                      | TSPX_TscDef,<br>TSPX_SDCCH8SubD<br>ef, C_arfcnA,<br>TimingAdv(30))                                                                                |
| 51 | [TSPC_DCS]                                                                                                                                                                           |                                                                                                                                                   |
| 52 | L!DL_UdatRqImm                                                                                                                                                                       | ImmAss(TCV_agch,<br>ImmAsgn_sdcch8(TC<br>V_Rr, TCV_Fn,<br>TSPX_TmSltDef,<br>TSPX_TscDef,<br>TSPX_SDCCH8SubD<br>ef, C_arfcnAd_4,<br>TimingAdv(30)) |
|    | <b>Itree_Asgn1</b>                                                                                                                                                                   |                                                                                                                                                   |
| 53 | (TCV_chTch := C_FACCHF_A_1, TCV_sacchTch :=<br>C_SACCHF_A_1, TCV_slt2 :=<br>INT_TO_BIT(((BIT_TO_INT(TSPX_TmSltDef) + 1)<br>MOD 8), 3))                                               |                                                                                                                                                   |
| 54 | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                                                             |                                                                                                                                                   |
| 55 | +Config_FACCHF_A_1(C_E_default, 7,<br>ChMod_sign, C_Ass, TCV_slt2, TSPX_TscDef,<br>FreqTCHa3, C_TCHF_ACCHF_1, TimingAdv(30),<br>C_BABR_0, C_cch_1Comb, C_BPM_3)                      |                                                                                                                                                   |
| 56 | +SysInfo_SacchSending(TCV_sacchTch,<br>TCV_sysinfo5, TCV_sysinfo6)                                                                                                                   |                                                                                                                                                   |
| 57 | (TCV_AssCmd :=<br>AsgnCmd_tch_fh(TCV_slt2, TSPX_TscDef,<br>7, '000001'B, '000001'B, Frql_omit,<br>CellChDes_omit, ChMod_sign_iei,<br>MoblAlc_r01, CphMod_omit)                       |                                                                                                                                                   |
| 58 | [TSPC_DCS]                                                                                                                                                                           |                                                                                                                                                   |
| 59 | +Config_FACCHF_A_1(C_E_default, 7,<br>ChMod_sign, C_Ass, TCV_slt2, TSPX_TscDef,<br>FreqTCHa8, C_TCHF_ACCHF_1, TimingAdv(30),<br>C_BABR_0, C_cch_1Comb, C_BPM_3)                      |                                                                                                                                                   |
| 60 | +SysInfo_SacchSending(TCV_sacchTch,<br>TCV_sysinfo5, TCV_sysinfo6)                                                                                                                   |                                                                                                                                                   |
| 61 | (TCV_AssCmd :=<br>AsgnCmd_tch_fh(TCV_slt2, TSPX_TscDef,<br>7, '000001'B, '000001'B, Frql_omit,<br>CellChDes_omit, ChMod_sign_iei,<br>MoblAlc_r01, CphMod_omit)                       |                                                                                                                                                   |
|    | <b>Itree_Asgn2</b>                                                                                                                                                                   |                                                                                                                                                   |
| 62 | (TCV_chTch1 := C_FACCHF_A_2, TCV_sacchTch1<br>:= C_SACCHF_A_2, TCV_slt2 :=<br>INT_TO_BIT(((BIT_TO_INT(TSPX_TmSltDef) + 3)<br>MOD 8), 3))                                             |                                                                                                                                                   |
| 63 | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                                                             |                                                                                                                                                   |
| 64 | +Config_FACCHF_A_2(C_E_default, 16,<br>ChMod(TSPX_modF), C_Ass, TCV_slt2,<br>TSPX_TscDef, FreqTCH(C_arfcnA),<br>C_TCHF_ACCHF_2, TimingAdv(30), C_BABR_0,<br>C_cch_1Comb, C_BPM_3)    |                                                                                                                                                   |
| 65 | +SysInfo_SacchSending(TCV_sacchTch1,<br>TCV_sysinfo5, TCV_sysinfo6)                                                                                                                  |                                                                                                                                                   |
| 66 | (TCV_AssCmd := AsgnCmd_nfh('00001'B,<br>TCV_slt2, TSPX_TscDef, 16, C_arfcnA,<br>CellChDes_r03, ChMod(TSPX_modF),<br>StartingTm_omit, CphMod_omit)                                    |                                                                                                                                                   |
| 67 | [TSPC_DCS]                                                                                                                                                                           |                                                                                                                                                   |
| 68 | +Config_FACCHF_A_2(C_E_default, 12,<br>ChMod(TSPX_modF), C_Ass, TCV_slt2,<br>TSPX_TscDef, FreqTCH(C_arfcnAd_4),<br>C_TCHF_ACCHF_2, TimingAdv(30), C_BABR_0,<br>C_cch_1Comb, C_BPM_3) |                                                                                                                                                   |
| 69 | +SysInfo_SacchSending(TCV_sacchTch1,<br>TCV_sysinfo5, TCV_sysinfo6)                                                                                                                  |                                                                                                                                                   |
| 70 | (TCV_AssCmd := AsgnCmd_nfh('00001'B,<br>TCV_slt2, TSPX_TscDef, 12, C_arfcnAd_4,<br>CellChDes_r01, ChMod(TSPX_modF),<br>StartingTm_omit, CphMod_omit)                                 |                                                                                                                                                   |



**Itree\_Asgn3**

71 (TCV\_chTch := C\_FACCHF\_A\_1, TCV\_sacchTch :=  
 C\_SACCHF\_A\_1, TCV\_sl2 :=  
 INT\_TO\_BIT(((BIT\_TO\_INT(TSPX\_TmSl2Def) + 4)  
 MOD 8), 3))

72 [TSPC\_PGSM OR TSPC\_EGSM]

73 +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)

74 +SysInfo\_SacchSending(TCV\_sacchTch,  
 TCV\_sysinfo5, TCV\_sysinfo6)

75 (TCV\_AssCmd :=  
 AsgnCmd\_tchf\_fh(TCV\_sl2, TSPX\_TscDef,  
 9, '000011'B, '001000'B, Frql\_omit,  
 CellChDes\_omit, ChMod\_omit, MobilAlc\_r02,  
 CphMod\_omit))

76 [TSPC\_DCS]

77 +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)

78 +SysInfo\_SacchSending(TCV\_sacchTch,  
 TCV\_sysinfo5, TCV\_sysinfo6)

79 (TCV\_AssCmd :=  
 AsgnCmd\_tchf\_fh(TCV\_sl2, TSPX\_TscDef,  
 9, '000011'B, '001000'B, Frql\_omit,  
 CellChDes\_omit, ChMod\_omit, MobilAlc\_r04,  
 CphMod\_omit))

**Itree\_Asgn4**

80 (TCV\_chTch1 := C\_FACCHF\_A\_2, TCV\_sacchTch1  
 := C\_SACCHF\_A\_2, TCV\_sl2 :=  
 INT\_TO\_BIT(((BIT\_TO\_INT(TSPX\_TmSl2Def) + 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))

81 [TSPC\_PGSM OR TSPC\_EGSM]

82 +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)

83 +SysInfo\_SacchSending(TCV\_sacchTch1,  
 TCV\_sysinfo5, TCV\_sysinfo6)

84 (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))

85 [TSPC\_DCS]

86 +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)

87 +SysInfo\_SacchSending(TCV\_sacchTch1,  
 TCV\_sysinfo5, TCV\_sysinfo6)

88 (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))

**Itree\_Asgn5**

89 (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\_TmSl2Def) +6)  
 MOD 8), 3))

90 [TSPC\_PGSM OR TSPC\_EGSM]  
91 +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)  
92 +SysInfo\_SacchSending(TCV\_sacchTch,  
TCV\_sysinfo5, TCV\_sysinfo6)  
93 (TCV\_AssCmd :=  
AsgnCmd\_tchh\_fh(TSPX\_TCHHSubDef,  
TCV\_sl2, TSPX\_TscDef, 8, '000101'B,  
'000000'B, Frql\_08, CellChDes\_omit,  
ChMod(TSPX\_modH), MobilAllc\_omit,  
CphMod\_omit))  
94 [TSPC\_DCS]  
95 +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)  
96 +SysInfo\_SacchSending(TCV\_sacchTch,  
TCV\_sysinfo5, TCV\_sysinfo6)  
97 (TCV\_AssCmd :=  
AsgnCmd\_tchh\_fh(TSPX\_TCHHSubDef,  
TCV\_sl2, TSPX\_TscDef, 3, '000101'B,  
'000000'B, Frql\_09, CellChDes\_omit,  
ChMod(TSPX\_modH), MobilAllc\_omit,  
CphMod\_omit))

**Itree\_Asgn6**  
98 (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\_TmSl2Def) +7)  
MOD 8), 3))

99 [TSPC\_PGSM OR TSPC\_EGSM]  
100 +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)  
101 +SysInfo\_SacchSending(TCV\_sacchTch1,  
TCV\_sysinfo5, TCV\_sysinfo6)  
102 (TCV\_AssCmd :=  
AsgnCmd\_tchh\_nfh(TSPX\_TCHHSubA,  
TCV\_sl2, TSPX\_TscDef, 12, C\_arfcn\_34,  
CellChDes\_omit, ChMod\_omit,  
StartingTm\_omit))

103 [TSPC\_DCS]  
104 +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)  
105 +SysInfo\_SacchSending(TCV\_sacchTch1,  
TCV\_sysinfo5, TCV\_sysinfo6)  
106 (TCV\_AssCmd :=  
AsgnCmd\_tchh\_nfh(TSPX\_TCHHSubA,  
TCV\_sl2, TSPX\_TscDef, 9, C\_arfcnAd\_6,  
CellChDes\_omit, ChMod\_omit,  
StartingTm\_omit))

**Itree\_Asgn7**  
107 (TCV\_sl2 :=  
INT\_TO\_BIT(((BIT\_TO\_INT(TSPX\_TmSl2Def) + 1)  
MOD 8), 3))  
108 +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)  
109 [TSPC\_PGSM OR TSPC\_EGSM]

|                           |  |                                                                                                                                                               |  |  |  |
|---------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| 110                       |  | (TCV_AssCmd := AsgnCmd_tchf_fh(TCV_slt2,<br>TSPX_TscDef, 19, '000000'B, '101000'B,<br>FrqI_omit, CellChDes_r04, ChMod_omit,<br>MoblAllc_r03, CphMod_omit))    |  |  |  |
| 111                       |  | [TSPC_DCS]                                                                                                                                                    |  |  |  |
| 112                       |  | (TCV_AssCmd := AsgnCmd_tchf_fh(TCV_slt2,<br>TSPX_TscDef, 15, '000000'B, '101000'B,<br>FrqI_omit, CellChDes_r02, ChMod_omit,<br>MoblAllc_r03, CphMod_omit))    |  |  |  |
| <b>Detailed Comments:</b> |  | <ol style="list-style-type: none"> <li>1. Default parameters except CA.</li> <li>2. The time slot is TSPX_TmSltDef, the ARFCN is the BCCH carrier.</li> </ol> |  |  |  |

| Test Case Dynamic Behaviour                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |    |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|----------|
| <b>Test Case Name:</b> TC_26_6_4_2_1                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |    |          |
| <b>Group:</b> GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |    |          |
| <b>Purpose:</b> 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: <ul style="list-style-type: none"> <li>- from TCH/F to hopping TCH/F in state U10 if the MS supports TCH/F and call control</li> <li>- from TCH/H to hopping TCH/H in state U10 if the MS supports TCH/H and call control</li> </ul> |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |    |          |
| <b>Default:</b> OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |    |          |
| Nr                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CRef | V  | Comments |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |    |          |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       | +BasicServiceMT(TSPX_MTBscSvcB, TSPX_MTChRateB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |    |          |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immss, 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_SDCCH4SubA, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, 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(30), C_BABR_0, C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                            |      |    |          |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       | +PreEnterCCstateU10_r01(TimingAdv(30), TSPX_SDCCH4SubA, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax)                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1. |          |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | body  | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |    |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | <b>localtree</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |    |          |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       | +AssCmdGen(TCV_cellid, C_Full, TSPX_TmSlitDef, TSPX_TscDef, TSPX_TCHHSubA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |    |          |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       | +AssCh_failure(TCV_chTch, TCV_AssCmd, FALSE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |    |          |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       | +localtree3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |    |          |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       | +localtree1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |    |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | <b>localtree1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |    |          |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       | [TSPC_DualRate]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |    |          |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       | (TCV_CphKey := OC_CphKeyGen(TSPX_Ki, TSPX_RANDDef))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |    |          |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       | +HalfRateCh_A_1(TSPX_TCHHSubA, C_Ass, TSPX_TmSlitDef, 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)                                                                                                                                                                                                                                                                                                                                                                             |      |    |          |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       | +PreEnterCCstateU10_r01(TimingAdv(30), TSPX_SDCCH4SubA, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax)                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 3. |          |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       | +localtree2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |    |          |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       | [TCV_CC AND(NOT TSPC_DualRate)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |    |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | <b>localtree2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |    |          |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       | +AssCmdGen(TCV_cellid, C_Half, TSPX_TmSlitDef, TSPX_TscDef, TSPX_TCHHSubA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |    |          |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       | +AssCh_failure(TCV_chTch, TCV_AssCmd, FALSE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |    |          |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       | +localtree3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |    |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | <b>localtree3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |    |          |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       | (TCV_L1Head := OM_GetL1Hd(C_SACCHF_A_1))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |    |          |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   |  |     |    |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--|-----|----|--|
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | [TSPC_PGSM OR TSPC_EGSM]          |  |     |    |  |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | [TCV_L1Head.mspwrlvl <> '00111'B] |  | (F) | 6. |  |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | +PostMainLinkRel(TCV_chTch)       |  |     |    |  |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | [TCV_L1Head.mspwrlvl = '00111'B]  |  | (P) |    |  |
| 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | +PostMainLinkRel(TCV_chTch)       |  |     |    |  |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | [TSPC_DCS]                        |  |     |    |  |
| 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | [TCV_L1Head.mspwrlvl <> '00011'B] |  | (F) | 6. |  |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | +PostMainLinkRel(TCV_chTch)       |  |     |    |  |
| 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | [TCV_L1Head.mspwrlvl = '00011'B]  |  | (P) |    |  |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | +PostMainLinkRel(TCV_chTch)       |  |     |    |  |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |  |     |    |  |
| <ol style="list-style-type: none"> <li>1. To set up a full rate non hopping call and power level = 7.</li> <li>2. To assign a full rate hopping channel with power level = 9, but the channel is not activated.</li> <li>3. To set up a half rate non hopping call and power level = 7.</li> <li>4. To assign a half rate channel with power level = 9, but the channel is not activated.</li> <li>5. The expected ASSIGNMENT FAILURE with " protocol error unspecified" received on the old channel.</li> <li>6. The power level is not the old power level, fail.</li> </ol> |                                   |  |     |    |  |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                               |    |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----|
| <b>Test Case Name:</b>      |       | TC_26_6_4_2_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                               |    |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                               |    |
| <b>Purpose:</b>             |       | 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: <ul style="list-style-type: none"> <li>- from SDCCH to hopping TCH/F; this test part is only applicable if the MS supports TCH/F.</li> <li>- from non-hopping SDCCH to hopping TCH/H; this test part is only applicable if the MS supports TCH/H.</li> <li>- from hopping TCH/F to hopping TCH/H; this test part is only applicable if the MS supports TCH/H.</li> </ul>                                            |                                                                                                                               |    |
| <b>Default:</b>             |       | OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                               |    |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CRef                                                                                                                          | V  |
| 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_noReestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubB, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                                                                                                               |    |
| 3                           | body  | LIDL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)                                                                                        |    |
| 4                           |       | L?DL_RaInChRq (TCV_Rqr.ra := DL_RaInChRq.msg.ecau_rrf, TCV_Rqr.fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ChReq(ChRequest_17)                                                                                                           |    |
| 5                           |       | LIDL_UdatRqImmAss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rqr.ra, TCV_Rqr.fn, TSPX_SDCCH4SubB, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30))) |    |
| 6                           |       | L?DL_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PagingRes(PagingRes_01)                                                                                                       |    |
| 7                           |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                               |    |
| 8                           |       | <b>localtree</b><br>(TCV_AssCmd := AsgnCmd_tchf_fh(C_S3, C_BCC, 7, '000000'B, '000100'B, FrqL_omit, CellChDes_omit, ChMod_omit, MoblAllc_04, CphMod_omit))                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                               |    |
| 9                           |       | +Adjust_gsmanddcs_powerlvl(0, 3, TCV_AssCmd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                               |    |
| 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                          |       | <b>localtree1</b><br>(TCV_AssCmd := AsgnCmd_tchf_fh('00010'B, '001'B, TSPX_TscDef, 7, '000001'B, '000110'B, FrqL_omit, CellChDes_omit, ChMod_omit, MoblAllc_04, CphMod_omit))                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                               |    |
| 16                          |       | +Adjust_gsmanddcs_powerlvl(0, 3, TCV_AssCmd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                               |    |
| 17                          |       | +AssCh_failure(TCV_ch, TCV_AssCmd, FALSE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                               |    |
| 18                          |       | +FullRateCh_A_1_nociph(C_Ass, C_S3, C_BCC, ChMod_sign, Freq_rg8, Freq_rd8, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                               | 4. |
| 19                          |       | (TCV_AssCmd := AsgnCmd_tchf_fh(C_S3, C_BCC, 7, '000000'B, '000100'B, FrqL_omit, CellChDes_omit, ChMod_omit, MoblAllc_04, CphMod_omit))                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                               |    |

|                           |  |                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |
|---------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| 20                        |  | +Adjust_gsmaddcs_powerlvl(0, 3,<br>TCV_AssCmd)                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |
| 21                        |  | +AssCh_complete(TCV_ch, TCV_chTch,<br>TCV_AssCmd)                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |
| 22                        |  | (TCV_AssCmd :=<br>AsgnCmd_tch_fh('00010'B, '001'B,<br>TSPX_TscDef, 7, '000001'B, '000110'B,<br>FrqI_omit, CellChDes_omit,<br>ChMod_omit, MobilAlc_04,<br>CphMod_omit)                                                                                                                                                                                                                                                      |  |  |  |
| 23                        |  | +Adjust_gsmaddcs_powerlvl(0, 3,<br>TCV_AssCmd)                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |
| 24                        |  | +AssCh_failure(TCV_chTch,<br>TCV_AssCmd, FALSE)                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |
| 25                        |  | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| <b>Detailed Comments:</b> |  | <ol style="list-style-type: none"> <li>1. Default parameters: CCCH combined with SDCCH4, Tx-integer = 5, Max-retrans = 1.</li> <li>2. To assign a TCH/F hopping channel which is not activated.</li> <li>3. To assign a TCH/H hopping channel which is not activated.</li> <li>4. To setup a physical channel as TCH/F hopping channel.</li> <li>5. To assign the TCH/F hopping channel which is now activated.</li> </ol> |  |  |  |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |    |                                                                           |
|-----------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|---------------------------------------------------------------------------|
| <b>Test Case Name:</b>      |       | TC_26_6_5_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |    |                                                                           |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |    |                                                                           |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                   |      |    |                                                                           |
| <b>Default:</b>             |       | OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |    |                                                                           |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CRef | V  | Comments                                                                  |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |    |                                                                           |
| 2                           |       | (TCV_asscmd_ts := TSPX_TmSlta,<br>TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlA, 5))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |    |                                                                           |
| 3                           |       | +BasicServiceMT(TSPX_MTBscSvcl,<br>TSPX_MTChRatel)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |    |                                                                           |
| 4                           |       | +IdleUpdated(C_E_default, C_CellA,<br>C_SCH_A, C_BCCH_A_1, C_Immasc, C_S0,<br>C_SlotNU, C_SlotNU, C_SlotNU, C_BCC,<br>C_TxInt_5, C_Max_7, C_NECl_0, C_ATT_0,<br>TimingAdv(20), C_BABR_0, C_cch_1Comb,<br>C_BPM_3, C_T3212_0, C_ci_cellA,<br>C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01,<br>CellChDes_20_Aman, CellChDes_201_Ad,<br>C_CellReselectHys12, C_MaxPwrLvlG,<br>C_MaxPwrLvlD, BcchFreqLst_01,<br>BcchFreqLst_Omit, BcchFreqLst_48,<br>BcchFreqLst_Omit, C_noRestablishment,<br>C_BCC, C_NCC, C_Start_Tmsi,<br>TSPX_SDCCH4SubDef, TSPX_CKSNDf,<br>TSPX_RANDDef, C_arfcnA, C_arfcnAd_4,<br>TSPX_IMSI, C_Test_fh, C_NCCP_2) |      |    |                                                                           |
| 5                           |       | +StartCellB_ho(C_E_suitable,<br>C_BCCHcarrierB_ho, C_BCCHcarrierB_hod,<br>C_Immasc, TCV_slot, TCV_tsc,<br>TimingAdv(20), C_TxInt_5, C_Max_7,<br>C_NECl_0, C_ATT_0, C_BABR_0,<br>C_cch_1Comb, C_BPM_3, C_T3212_0,<br>C_MCC_1, C_PLMN_1, C_LAC_2,<br>CellChDes_20_Bman, CellChDes_201_Bd,<br>BcchFreqLst_01, BcchFreqLst_48,<br>C_noRestablishment, C_BCC, C_NCC,<br>TSPX_k, 100)                                                                                                                                                                                                                                               |      |    | frame number in cell B is<br>100 in advance of frame<br>number in cell A. |
| 6                           |       | +FullRateCh_A_1(C_Ass, TCV_asscmd_ts,<br>TCV_tsc, TCV_ChMod, FreqTCH_omit,<br>FreqTCH_omit, TSPX_TCHcarrierA_ho,<br>TSPX_TCHcarrierA_hod, TimingAdv(20),<br>C_BABR_0, C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |    |                                                                           |
| 7                           |       | +Est_MT_CallNonFH(TimingAdv(20),<br>C_Full)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      | 0. |                                                                           |
| 8                           |       | (TCV_M := 1, TCV_ch := TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |    |                                                                           |
| 9                           | body  | REPEAT local_handover<br>UNTIL [TCV_M = 9]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |    |                                                                           |
| 10                          |       | +ChanRel_end(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |    |                                                                           |
|                             |       | <b>local_handover</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |    |                                                                           |
| 11                          |       | (TCV_chTch1 := TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |    |                                                                           |
| 12                          |       | +local_channel_config                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |    |                                                                           |
| 13                          |       | +local_send_hoCMD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |    |                                                                           |
| 14                          |       | +local_firstburst_ontime_CHK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |    |                                                                           |
| 15                          |       | +RR_hocomp1(TCV_n, TimingAdv(TCV_T))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |    |                                                                           |
| 16                          |       | [(TCV_M = 3) AND(NOT TSPC_DualRate)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |    |                                                                           |
| 17                          |       | (TCV_M := 9)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |    |                                                                           |
| 18                          |       | [C_Yes]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |    |                                                                           |
| 19                          |       | (TCV_M := TCV_M + 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |    |                                                                           |
|                             |       | <b>local_send_hoCMD</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |    |                                                                           |
| 20                          |       | [(TCV_M = 3) OR (TCV_M = 5)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |    |                                                                           |
| 21                          |       | (TCV_Fn := OM_ComingFn(TCV_chTch1),<br>TCV_Null:= OM_SendNextOn(TCV_chTch1,<br>TCV_Fn), TCV_Strt :=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |    | starting time is set to 1.1<br>s pluse 100 frames                         |



|    |                                                                                                                                                                                         |                                     |    |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----|
| 22 | OC_StartTime(TCV_Fn,(C_StartingTimeHO + 100),<br>1))<br>LIDL_DatRqHoCmd(<br>DL_DatRqHoCmd.msg.strt:= TCV_Strt)                                                                          | HndOvSnd(TCV_chT<br>ch1, TCV_HoCMD) |    |
| 23 | [C_Yes]                                                                                                                                                                                 |                                     |    |
| 24 | LIDL_DatRqHoCmd                                                                                                                                                                         | HndOvSnd(TCV_chT<br>ch1, TCV_HoCMD) |    |
|    | <b>local_channel_config</b>                                                                                                                                                             |                                     |    |
| 25 | +local_ch_config                                                                                                                                                                        |                                     |    |
| 26 | (TCV_ch := TCV_chTch)                                                                                                                                                                   |                                     |    |
|    | <b>local_ch_config</b>                                                                                                                                                                  |                                     |    |
| 27 | [TCV_M = 1]                                                                                                                                                                             |                                     | 1. |
| 28 | (TCV_n := 500, TCV_Cntref :=<br>TSPX_NoOfHoAccA, TCV_T := 20, TCV_Horf:=<br>TSPX_HoRefA, TCV_ts := TSPX_TmSlitB, TCV_tsc<br>:= TSPX_TscB, TCV_chtype := '00001'B)                       |                                     |    |
| 29 | +FullRateCh_B_1(C_Asynho, TCV_ts, TCV_tsc,<br>TCV_ChMod, FreqTCH(TSPX_TCHcarrierB_ho),<br>FreqTCH(TSPX_TCHcarrierB_hod),<br>TimingAdv(TCV_T), C_BABR_0, C_cch_1Comb,<br>C_BPM_3)        |                                     |    |
| 30 | +local_set_arfcn_B                                                                                                                                                                      |                                     |    |
| 31 | (TCV_HoCMD :=<br>HandOverCmd_2(TCV_Horf, TCV_ts,<br>TCV_chdescr_arfcn, TCV_tch_arfcn,<br>TCV_Pwrlvl_ho, TCV_tsc, TCV_chtype))                                                           |                                     |    |
| 32 | [TCV_M = 2]                                                                                                                                                                             |                                     | 2. |
| 33 | (TCV_n := 500, TCV_Cntref :=<br>TSPX_NoOfHoAccB, TCV_T := TSPX_TimadvA,<br>TCV_ts := TSPX_TmSlitNotZero,TCV_Horf:=<br>TSPX_HoRefB, TCV_tsc := TSPX_TscC)                                |                                     |    |
| 34 | +FullRateCh_A_1(C_Asynho, TCV_ts, TCV_tsc,<br>TCV_ChMod, FreqTCHa_hof1, FreqTCHa_hof1d,<br>C_Noarfcn, C_Noarfcn, TimingAdv(TCV_T),<br>C_BABR_0, C_cch_1Comb, C_BPM_3)                   |                                     |    |
| 35 | +local_handover2                                                                                                                                                                        |                                     |    |
| 36 | [TCV_M = 3]                                                                                                                                                                             |                                     | 3. |
| 37 | (TCV_n := 500, TCV_Cntref :=<br>TSPX_NoOfHoAccC, TCV_T := 20, TCV_ts :=<br>TSPX_TmSlitC,TCV_Horf:= TSPX_HoRefC,<br>TCV_tsc := TSPX_TscC, TCV_chtype := '00001'B)                        |                                     |    |
| 38 | +FullRateCh_B_1(C_Asynho, TCV_ts, TCV_tsc,<br>TCV_ChMod, FreqTCH(TSPX_TCHcarrierB_ho),<br>FreqTCH(TSPX_TCHcarrierB_hod),<br>TimingAdv(TCV_T), C_BABR_0, C_cch_1Comb,<br>C_BPM_3)        |                                     |    |
| 39 | +local_set_arfcn_B                                                                                                                                                                      |                                     |    |
| 40 | (TCV_HoCMD :=<br>HandOverCmd_1(TCV_Horf, TCV_ts,<br>TCV_chdescr_arfcn, TCV_tch_arfcn,<br>TCV_Pwrlvl_ho, TCV_tsc, TCV_chtype,<br>TCV_ChMod))                                             |                                     |    |
| 41 | [TCV_M = 4]                                                                                                                                                                             |                                     | 4. |
| 42 | (TCV_n := 750, TCV_Cntref :=<br>TSPX_NoOfHoAccD, TCV_T := TSPX_TimadvB,<br>TCV_ts := C_S0,TCV_Horf:= TSPX_HoRefD,<br>TCV_tsc := TSPX_TscD)                                              |                                     |    |
| 43 | +HalfRateCh_A_1(TSPX_TCHHSubA, C_Asynho,<br>TCV_ts, TCV_tsc, TCV_ChMod, FreqTCHa_hof4,<br>FreqTCHa_hof4d, C_Noarfcn, C_Noarfcn,<br>TimingAdv(TCV_T), C_BABR_0, C_cch_1Comb,<br>C_BPM_3) |                                     |    |
| 44 | +local_handover4                                                                                                                                                                        |                                     |    |
| 45 | [TCV_M = 5]                                                                                                                                                                             |                                     | 5. |
| 46 | (TCV_n := 750, TCV_Cntref :=<br>TSPX_NoOfHoAccE, TCV_T := 20, TCV_ts :=<br>TSPX_TmSlitNotZero1, TCV_Horf:= TSPX_HoRefE,<br>TCV_tsc := TSPX_TscE)                                        |                                     |    |
| 47 | +HalfRateCh_B_1(TSPX_TCHHSubDef,<br>C_Asynho, TCV_ts, TCV_tsc, TCV_ChMod,                                                                                                               |                                     |    |

|    |                                                                                                                                                                                                                       |                                                          |    |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----|
| 48 | FreqTCHb_hof1, FreqTCHb_hof1d,<br>TimingAdv(TCV_T), C_BABR_0, C_cch_1Comb,<br>C_BPM_3)                                                                                                                                |                                                          |    |
| 49 | +local_handover5                                                                                                                                                                                                      |                                                          |    |
| 50 | [TCV_M = 6]<br>(TCV_n := 750, TCV_Cntref :=<br>TSPX_NoOfHoAccF, TCV_T := 20, TCV_ts :=<br>TSPX_TmSlitNotZero, TCV_Horf:= TSPX_HoRefF,<br>TCV_tsc := TSPX_TscF)                                                        |                                                          | 6. |
| 51 | +HalfRateCh_A_1(TSPX_TCHHSubDef,<br>C_Asynho, TCV_ts, TCV_tsc, TCV_ChMod,<br>FreqTCH_omit, FreqTCH_omit,<br>TSPX_TCHcarrierA_ho, TSPX_TCHcarrierA_hod,<br>TimingAdv(TSPX_TimadvB), C_BABR_0,<br>C_cch_1Comb, C_BPM_3) |                                                          |    |
| 52 | +local_set_arfcn_A                                                                                                                                                                                                    |                                                          |    |
| 53 | +local_HoCMD_nofh                                                                                                                                                                                                     |                                                          |    |
| 54 | [TCV_M = 7]                                                                                                                                                                                                           |                                                          | 7. |
| 55 | (TCV_n := 750, TCV_Cntref :=<br>TSPX_NoOfHoAccD, TCV_T := TSPX_TimadvA,<br>TCV_ts := TSPX_TmSlitNotZero, TCV_Horf:=<br>TSPX_HoRefG, TCV_tsc := TSPX_TscG)                                                             |                                                          |    |
| 56 | +HalfRateCh_B_1(TSPX_TCHHSubA, C_Asynho,<br>TCV_ts, TCV_tsc, TCV_ChMod, FreqTCHb_hof2,<br>FreqTCHb_hof2d, TimingAdv(TSPX_TimadvA),<br>C_BABR_0, C_cch_1Comb, C_BPM_3)                                                 |                                                          |    |
| 57 | +local_handover7                                                                                                                                                                                                      |                                                          |    |
| 58 | [TCV_M = 8]                                                                                                                                                                                                           |                                                          | 8. |
| 59 | (TCV_n := 500, TCV_Cntref :=<br>TSPX_NoOfHoAccA, TCV_T := TSPX_TimadvB,<br>TCV_ts := TSPX_TmSlitNotZero1, TCV_Horf:=<br>TSPX_HoRefB, TCV_tsc := TSPX_TscB)                                                            |                                                          |    |
| 60 | +FullRateCh_A_1(C_Asynho, TCV_ts, TCV_tsc,<br>TCV_ChMod, FreqTCH_omit, FreqTCH_omit,<br>C_arfcnA, C_arfcnAd_4, TimingAdv(TCV_T),<br>C_BABR_0, C_cch_1Comb, C_BPM_3)                                                   |                                                          |    |
| 61 | +local_set_arfcn_A1                                                                                                                                                                                                   |                                                          |    |
| 62 | +local_HoCMD_nofh                                                                                                                                                                                                     |                                                          |    |
| 63 | <b>local_set_arfcn_A</b><br>[TSPC_PGSM OR TSPC_EGSM]                                                                                                                                                                  |                                                          |    |
| 64 | (TCV_chdescr_arfcn := C_arfcnA, TCV_tch_arfcn<br>:= TSPX_TCHcarrierA_ho)                                                                                                                                              |                                                          |    |
| 65 | [TSPC_DCS]                                                                                                                                                                                                            |                                                          |    |
| 66 | (TCV_chdescr_arfcn := C_arfcnAd_4,<br>TCV_tch_arfcn := TSPX_TCHcarrierA_hod)                                                                                                                                          |                                                          |    |
| 67 | <b>local_set_arfcn_A1</b><br>[TSPC_PGSM OR TSPC_EGSM]                                                                                                                                                                 |                                                          |    |
| 68 | (TCV_chdescr_arfcn := C_arfcnA, TCV_tch_arfcn<br>:= C_arfcnA)                                                                                                                                                         |                                                          |    |
| 69 | [TSPC_DCS]                                                                                                                                                                                                            |                                                          |    |
| 70 | (TCV_chdescr_arfcn := C_arfcnAd_4,<br>TCV_tch_arfcn := C_arfcnAd_4)                                                                                                                                                   |                                                          |    |
| 71 | <b>local_set_arfcn_B</b><br>[TSPC_PGSM OR TSPC_EGSM]                                                                                                                                                                  |                                                          |    |
| 72 | (TCV_chdescr_arfcn := C_BCCHcarrierB_ho,<br>TCV_tch_arfcn := TSPX_TCHcarrierB_ho)                                                                                                                                     |                                                          |    |
| 73 | [TSPC_DCS]                                                                                                                                                                                                            |                                                          |    |
| 74 | (TCV_chdescr_arfcn := C_BCCHcarrierB_hod,<br>TCV_tch_arfcn := TSPX_TCHcarrierB_hod)                                                                                                                                   |                                                          |    |
| 75 | <b>local_firstburst_ontime_CHK</b><br>[[TCV_M = 3] OR (TCV_M = 5)]                                                                                                                                                    |                                                          |    |
| 76 | L?DL_RacliHoacc(TCV_Fn := DL_RacliHoacc.fn)                                                                                                                                                                           | HndOvAccRcv(TCV_c<br>h,<br>HandOverAcc_02(TC<br>V_Horf)) |    |
| 77 | (TCV_Cntref := TCV_Cntref -1)                                                                                                                                                                                         |                                                          |    |

|                                                                                                                                                                   |                                                                                                                            |     |    |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----|----|--|
| 78                                                                                                                                                                | +FnArith(TCV_Fn, TCV_Strt.fn)                                                                                              |     |    |  |
| 79                                                                                                                                                                | [TCV_M = 3]                                                                                                                |     |    |  |
| 80                                                                                                                                                                | [(TCV_Time > 5) OR(TCV_Time < 0)]                                                                                          | (F) | 9. |  |
| 81                                                                                                                                                                | [(TCV_Time >= 0) AND(TCV_Time < 5)]                                                                                        | (P) |    |  |
| 82                                                                                                                                                                | [TCV_M = 5]                                                                                                                |     |    |  |
| 83                                                                                                                                                                | [(TCV_Time > 10) OR(TCV_Time < 0)]                                                                                         | (F) | 9. |  |
| 84                                                                                                                                                                | [(TCV_Time >= 0) AND(TCV_Time < 10)]                                                                                       | (P) |    |  |
| 85                                                                                                                                                                | [C_Yes]                                                                                                                    |     |    |  |
|                                                                                                                                                                   | <b>local_handover2</b>                                                                                                     |     |    |  |
| 86                                                                                                                                                                | [TSPC_PGSM OR TSPC_EGSM]                                                                                                   |     |    |  |
| 87                                                                                                                                                                | (TCV_HoCMD := HandOverCmd_22(TCV_Horf,<br>TCV_ts, TCV_Pwrlvl_ho, TCV_tsc))                                                 |     |    |  |
| 88                                                                                                                                                                | [TSPC_DCS]                                                                                                                 |     |    |  |
| 89                                                                                                                                                                | (TCV_HoCMD := HandOverCmd_22d(TCV_Horf,<br>TCV_ts, TCV_Pwrlvl_ho, TCV_tsc))                                                |     |    |  |
|                                                                                                                                                                   | <b>local_handover4</b>                                                                                                     |     |    |  |
| 90                                                                                                                                                                | [TSPC_PGSM OR TSPC_EGSM]                                                                                                   |     |    |  |
| 91                                                                                                                                                                | (TCV_HoCMD := HandOverCmd_24_A1(TCV_Horf,<br>TCV_ts, TCV_Pwrlvl_ho, TCV_tsc))                                              |     |    |  |
| 92                                                                                                                                                                | [TSPC_DCS]                                                                                                                 |     |    |  |
| 93                                                                                                                                                                | (TCV_HoCMD :=<br>HandOverCmd_24_A1d(TCV_Horf, TCV_ts,<br>TCV_Pwrlvl_ho, TCV_tsc))                                          |     |    |  |
|                                                                                                                                                                   | <b>local_handover5</b>                                                                                                     |     |    |  |
| 94                                                                                                                                                                | [TSPC_PGSM OR TSPC_EGSM]                                                                                                   |     |    |  |
| 95                                                                                                                                                                | (TCV_HoCMD := HandOverCmd_24_B1(TCV_Horf,<br>TCV_ts, TCV_Pwrlvl_ho, TCV_tsc))                                              |     |    |  |
| 96                                                                                                                                                                | [TSPC_DCS]                                                                                                                 |     |    |  |
| 97                                                                                                                                                                | (TCV_HoCMD :=<br>HandOverCmd_24_B1d(TCV_Horf, TCV_ts,<br>TCV_Pwrlvl_ho, TCV_tsc))                                          |     |    |  |
|                                                                                                                                                                   | <b>local_handover7</b>                                                                                                     |     |    |  |
| 98                                                                                                                                                                | [TSPC_PGSM OR TSPC_EGSM]                                                                                                   |     |    |  |
| 99                                                                                                                                                                | (TCV_HoCMD := HandOverCmd_24_B3(TCV_Horf,<br>TCV_ts, TCV_Pwrlvl_ho, TCV_tsc, TCV_ChMod))                                   |     |    |  |
| 100                                                                                                                                                               | [TSPC_DCS]                                                                                                                 |     |    |  |
| 101                                                                                                                                                               | (TCV_HoCMD :=<br>HandOverCmd_24_B3d(TCV_Horf, TCV_ts,<br>TCV_Pwrlvl_ho, TCV_tsc, TCV_ChMod))                               |     |    |  |
|                                                                                                                                                                   | <b>local_HoCMD_nofh</b>                                                                                                    |     |    |  |
| 102                                                                                                                                                               | (TCV_HoCMD := HandOverCmd_3(TCV_Horf,<br>TCV_ts, TCV_chdescr_arfcn, TCV_tch_arfcn,<br>TCV_Pwrlvl_ho, TCV_tsc, TCV_chtype)) |     |    |  |
| <b>Detailed Comments:</b>                                                                                                                                         |                                                                                                                            |     |    |  |
| 0. IUT enters state U10 with TCH/F_nonFH in cell A                                                                                                                |                                                                                                                            |     |    |  |
| 1. HO from TCH/F_nonFH of cell A to TCH/F_nonFH in CELL B                                                                                                         |                                                                                                                            |     |    |  |
| 2. HO from TCH/F_FH of cell A to TCH/F_FH in CELL B                                                                                                               |                                                                                                                            |     |    |  |
| 3. HO from TCH/F_FH of cell A to TCH/F_nonFH in CELL B                                                                                                            |                                                                                                                            |     |    |  |
| 4. HO from TCH/F_nonFH of cell A to TCH/H_FH in CELL B                                                                                                            |                                                                                                                            |     |    |  |
| 5. HO from TCH/H_FH of cell A to TCH/H_FH in CELL B                                                                                                               |                                                                                                                            |     |    |  |
| 6. HO from TCH/H_FH of cell A to TCH/H_nonFH in CELL B                                                                                                            |                                                                                                                            |     |    |  |
| 7. HO from TCH/H_nonFH of cell A to TCH/H_FH in CELL B                                                                                                            |                                                                                                                            |     |    |  |
| 8. HO from TCH/H_FH of cell A to TCH/F_nonFH in CELL B                                                                                                            |                                                                                                                            |     |    |  |
| 9. 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                  |   |                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------|
| <b>Test Case Name:</b> TC_26_6_5_2_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                  |   |                                                                             |
| <b>Group:</b> GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                  |   |                                                                             |
| <b>Purpose:</b> 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. |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                  |   |                                                                             |
| <b>Default:</b> OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                  |   |                                                                             |
| Nr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                                                             | V | 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_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_20_Aman, CellChDes_202_Adman, 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_10) |                                                                                                  |   |                                                                             |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +StartCellB_ho(C_E_suitable, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), 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_noReestablishment, 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                  |   |                                                                             |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +Est_MO_Call_init(C_CHSDCCH4_Non FH, MobilAllc_omit, MobilAllc_omit, TimingAdv(30), C_BCC, C_one, C_one)                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                  |   | 1.                                                                          |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | body  | +ltree_sendHoCMD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                  |   |                                                                             |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | (TCV_ch:= C_FACCHF_B_1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                  |   |                                                                             |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | +RR_hocomp1(500, TimingAdv(20))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                  |   |                                                                             |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | L?DL_DatInSetup (TCV_Mt1 := DL_DatInSetup.msg.mt)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | SetupRcv(SetupInd_0 1)                                                                           |   | 3.                                                                          |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | +SendSeqNo_chk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                  |   | 4.                                                                          |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | post  | +ChanRel_end(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                  |   |                                                                             |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | <b>ltree_sendHoCMD</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                  |   |                                                                             |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | [TSPC_PGSM OR TSPC_EGSM]<br>L!DL_DatRqHoCmd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | HndOvSnd(TCV_ch, HandOverCmd_22_B 1(TCV_Horf, TCV_ts, TCV_Pwrlvl_ho, TimingAdv_omit, TCV_ChMod)) |   | 2.                                                                          |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | [TSPC_DCS]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                  |   |                                                                             |

|                                                                                                                                                                                                                                                                                                                                                                          |                                                       |                                                                                                                     |    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----|
| 18                                                                                                                                                                                                                                                                                                                                                                       | LIDL_DatRqHoCmd                                       | HndOvSnd(TCV_ch,<br>HandOverCmd_22_B<br>1d(TCV_Horf,<br>TCV_ts,<br>TCV_Pwrlvl_ho,<br>TimingAdv_omit,<br>TCV_ChMod)) | 2. |
| 19                                                                                                                                                                                                                                                                                                                                                                       | <b>localtree_setArfcn</b><br>[TSPC_PGSM OR TSPC_EGSM] |                                                                                                                     |    |
| 20                                                                                                                                                                                                                                                                                                                                                                       | (TCV_chdescr_arfcn:= C_arfcnA)                        |                                                                                                                     |    |
| 21                                                                                                                                                                                                                                                                                                                                                                       | [TSPC_DCS]                                            |                                                                                                                     |    |
| 22                                                                                                                                                                                                                                                                                                                                                                       | (TCV_chdescr_arfcn:= C_arfcnAd_4)                     |                                                                                                                     |    |
| <p><b>Detailed Comments:</b></p> <ol style="list-style-type: none"> <li>1. Initiate a call and L2_frame with the Setup will not be acknowledged by the SS_L2.</li> <li>2. HO from SDCCH/4_nonFH to TCH/F_FH.</li> <li>3. Last L3-msg shall be retransmitted by the MS with the same sequence number of last L3-msg.</li> <li>4. Check of the sequence number.</li> </ol> |                                                       |                                                                                                                     |    |

| Test Case Dynamic Behaviour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                               |   |                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------|
| <b>Test Case Name:</b> TC_26_6_5_2_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                               |   |                                                                             |
| <b>Group:</b> GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                               |   |                                                                             |
| <b>Purpose:</b> 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. |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                               |   |                                                                             |
| <b>Default:</b> OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                               |   |                                                                             |
| Nr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CRef                                                                          | V | Comments                                                                    |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                               |   |                                                                             |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +BasicServiceMO(TSPX_MOBscSvcE,<br>TSPX_MOChRateE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                               |   |                                                                             |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | (TCV_ia_ts:= '000'B, TCV_ts:=<br>TSPX_TmSltNotZero, TCV_Cntref:=<br>TSPX_NoOfHoAccD, TCV_Horf:= TSPX_HoRefB,<br>TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlA,<br>5))                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                               |   |                                                                             |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +IdleUpdated(C_E_default, C_CellA,<br>C_SCH_A, C_BCCH_A_1, C_Immass, C_S0,<br>C_SlotNU, C_SlotNU, C_SlotNU, C_BCC,<br>C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0,<br>TimingAdv(30), C_BABR_0, C_cch_1Comb,<br>C_BPM_3, C_T3212_0, C_ci_cellA,<br>C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01,<br>CellChDes_20_Aman, CellChDes_202_Adman,<br>C_CellReselectHys12, C_MaxPwrLvlG,<br>C_MaxPwrLvlD, BcchFreqLst_01,<br>BcchFreqLst_Omit, BcchFreqLst_48,<br>BcchFreqLst_Omit, C_noRestablishment,<br>C_BCC, C_NCC, C_Start_Tmsi,<br>TSPX_SDCCH4SubDef, TSPX_CKSNDf,<br>TSPX_RANDDef, C_arfcnA, C_arfcnAd_4,<br>TSPX_IMSI, C_Test_fh, C_NCCP_10) |                                                                               |   |                                                                             |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +StartCellB_ho(C_E_suitable,<br>C_BCCHcarrierB_ho, C_BCCHcarrierB_hod,<br>C_Immass, TCV_slot, TCV_tsc,<br>TimingAdv(30), C_TxInt_5, C_Max_7,<br>C_NECI_0, C_ATT_0, C_BABR_0,<br>C_cch_1Comb, C_BPM_3, C_T3212_0,<br>C_MCC_1, C_PLMN_1, C_LAC_2,<br>CellChDes_20_Bman, CellChDes_201_Bd,<br>BcchFreqLst_01, BcchFreqLst_48,<br>C_noRestablishment, C_BCC_0, C_NCC_3,<br>TSPX_k, 0)                                                                                                                                                                                                                                                 |                                                                               |   | The timeslots of Cells A and B are not coincident at the antenna connector. |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +HalfRateCh_B_1(TSPX_TCHHSubDef,<br>C_Asynho, TCV_ts, TSPX_TscB,<br>TCV_ChMod, FreqTCHb_hof4,<br>FreqTCHb_hof4d, TimingAdv(20),<br>C_BABR_0, C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                               |   |                                                                             |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +local_setArfcn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                               |   |                                                                             |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +Est_MO_Call_init(C_CHSDCCH4_Non<br>FH, MobilAlc_omit, MobilAlc_omit,<br>TimingAdv(30), C_BCC, C_one, C_one)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                               |   | 1.                                                                          |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | body  | +local_sendHoCMD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                               |   |                                                                             |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | (TCV_ch:=<br>OC_SubchOfFacchh(TSPX_TCHH<br>SubDef, C_CellB, 1))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                               |   |                                                                             |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | +RR_hocomp1(750,<br>TimingAdv(20))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                               |   |                                                                             |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | L?DL_DatInSetup (TCV_Mt1 :=<br>DL_DatInSetup.msg.mt)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SetupRcv(SetupInd_0<br>1)                                                     |   | 3.                                                                          |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | +SendSeqNo_chk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                               |   | 4.                                                                          |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | post  | +ChanRel_end(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                               |   |                                                                             |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | <b>local_sendHoCMD</b><br>[TSPC_PGSM OR TSPC_EGSM]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                               |   |                                                                             |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | L!DL_DatRqHoCmd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | HndOvSnd(TCV_ch,<br>HandOverCmd_24_B<br>2(TCV_Horf, TCV_ts,<br>TCV_Pwrlvl_ho, |   | 2.                                                                          |

|                                                                                                                                                                                                                                                                                                                                                                 |                                                   |  |                                                                                                                     |  |    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------|--|----|
| 17                                                                                                                                                                                                                                                                                                                                                              |                                                   |  | TimingAdv_omit,<br>TCV_ChMod))                                                                                      |  |    |
| 18                                                                                                                                                                                                                                                                                                                                                              | [TSPC_DCS]<br>LIDL_DatRqHoCmd                     |  | HndOvSnd(TCV_ch,<br>HandOverCmd_24_B<br>2d(TCV_Horf,<br>TCV_ts,<br>TCV_Pwrlvl_ho,<br>TimingAdv_omit,<br>TCV_ChMod)) |  | 2. |
| 19                                                                                                                                                                                                                                                                                                                                                              | <b>local_setArfcn</b><br>[TSPC_PGSM OR TSPC_EGSM] |  |                                                                                                                     |  |    |
| 20                                                                                                                                                                                                                                                                                                                                                              | (TCV_chdescr_arfcn:= C_arfcnA)                    |  |                                                                                                                     |  |    |
| 21                                                                                                                                                                                                                                                                                                                                                              | [TSPC_DCS]                                        |  |                                                                                                                     |  |    |
| 22                                                                                                                                                                                                                                                                                                                                                              | (TCV_chdescr_arfcn:= C_arfcnAd_4)                 |  |                                                                                                                     |  |    |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                                                                       |                                                   |  |                                                                                                                     |  |    |
| <ol style="list-style-type: none"> <li>1. Initiate a call and L2_frame with the Setup will not be acknowledged by the SS_L2.</li> <li>2. HO from SDCCH/4_nonFH to TCH/H_FH.</li> <li>3. Last L3-msg shall be retransmitted by the MS with the same sequence number of last L3-msg.</li> <li>4. Check the sending sequence number and assign verdict.</li> </ol> |                                                   |  |                                                                                                                     |  |    |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                       |   |                                                                             |
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| <b>Test Case Name:</b>      |       | TC_26_6_5_2_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                       |   |                                                                             |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                       |   |                                                                             |
| <b>Purpose:</b>             |       | 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.                                              |                                                                                       |   |                                                                             |
| <b>Default:</b>             |       | OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                       |   |                                                                             |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                                                  | V | 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_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_20_Aman, CellChDes_202_Adman, 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_10) |                                                                                       |   |                                                                             |
| 5                           |       | +StartCellB_ho(C_E_suitable, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), 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_noReestablishment, 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                       |   |                                                                             |
| 8                           |       | +Est_MO_Call_init(C_CHSDCCH4_Non FH, MobilAllc_omit, MobilAllc_omit, TimingAdv(30), C_BCC, C_one, C_one)                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                       |   | 1.                                                                          |
| 9                           | body  | +ltree_sendHoCMD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                       |   |                                                                             |
| 10                          |       | (TCV_ch:= OC_SubchOfSdcch8(TSPX_SDCC H8SubA, C_CellB, 1))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                       |   |                                                                             |
| 11                          |       | +RR_hocomp1(1500, TimingAdv(20))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                       |   |                                                                             |
| 12                          |       | L?DL_DatInSetup (TCV_Mt1 := DL_DatInSetup.msg.mt)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | SetupRcv(SetupInd_0 1)                                                                |   | 3.                                                                          |
| 13                          |       | +SendSeqNo_chk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                       |   | 4.                                                                          |
| 14                          | post  | +ChanRel_end(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |   |                                                                             |
| 15                          |       | <b>ltree_sendHoCMD</b><br>[TSPC_PGSM OR TSPC_EGSM]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                       |   |                                                                             |
| 16                          |       | L!DL_DatRqHoCmd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | HndOvSnd(TCV_ch, HandOverCmd_28_B 1(TCV_Horf, TCV_ts, TCV_Pwrlvl_ho, TimingAdv_omit)) |   | 2.                                                                          |



|                                                                                                                                                                                                                                                                                                                                                  |                                   |  |                                                                                                       |    |
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| 17                                                                                                                                                                                                                                                                                                                                               | [TSPC_DCS]                        |  |                                                                                                       |    |
| 18                                                                                                                                                                                                                                                                                                                                               | LIDL_DatRqHoCmd                   |  | HndOvSnd(TCV_ch,<br>HandOverCmd_28_B<br>1d(TCV_Horf,<br>TCV_ts,<br>TCV_Pwrlvl_ho,<br>TimingAdv_omit)) | 2. |
|                                                                                                                                                                                                                                                                                                                                                  | <b>localtree_setArfcn</b>         |  |                                                                                                       |    |
| 19                                                                                                                                                                                                                                                                                                                                               | [TSPC_PGSM OR TSPC_EGSM]          |  |                                                                                                       |    |
| 20                                                                                                                                                                                                                                                                                                                                               | (TCV_chdescr_arfcn:= C_arfcnA)    |  |                                                                                                       |    |
| 21                                                                                                                                                                                                                                                                                                                                               | [TSPC_DCS]                        |  |                                                                                                       |    |
| 22                                                                                                                                                                                                                                                                                                                                               | (TCV_chdescr_arfcn:= C_arfcnAd_4) |  |                                                                                                       |    |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                                                        |                                   |  |                                                                                                       |    |
| <ol style="list-style-type: none"> <li>1. Initiate a call and L2_frame with the Setup will not be acknowledged by the SS_L2.</li> <li>2. HO from SDCCH/4_nonFH to SDCCH8_FH.</li> <li>3. Last L3-msg shall be retransmitted by the MS with the same sequence number of last L3-msg.</li> <li>4. To check the sending sequence number.</li> </ol> |                                   |  |                                                                                                       |    |

| Test Case Dynamic Behaviour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       |   |                                                                             |
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| <b>Test Case Name:</b> TC_26_6_5_2_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       |   |                                                                             |
| <b>Group:</b> GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       |   |                                                                             |
| <b>Purpose:</b> 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. |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       |   |                                                                             |
| <b>Default:</b> OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       |   |                                                                             |
| Nr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CRef                  | V | 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_Immasc, 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_20_Aman, CellChDes_202_Adman, 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_10) |                       |   |                                                                             |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +StartCellB_ho(C_E_suitable, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Immasc, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_7, 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_2, CellChDes_20_Bman, CellChDes_201_Bd, BcchFreqLst_01, BcchFreqLst_48, C_noReestablishment, 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_A_1_nociph(TSPX_SDCCH8SubDef, C_Immasc, 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +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)                                                                                                                                                                                                                                                                                                                                                                                                                   |                       |   |                                                                             |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +localtree_setTchArfcn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       |   |                                                                             |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +Est_MO_Call_init(C_CHSDCCH8_NonFH, MobilAllc_omit, MobilAllc_omit, TimingAdv(30), TSPX_TscA, C_one, C_one)                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |   | 1.                                                                          |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | body  | +ltree_sendHoCMD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |   |                                                                             |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | (TCV_ch := OC_SubchOfSdcch8(TSPX_SDCCH8SubA, C_CellB, 1))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |   |                                                                             |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | +RR_hocomp1(1500, TimingAdv(TSPX_TimadvA))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |   |                                                                             |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | L?DL_DatInSetup (TCV_Mt1 := DL_DatInSetup.msg.mt)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | SetupRcv(SetupInd_01) |   | 3.                                                                          |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | +SendSeqNo_chk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |   | 4.                                                                          |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | post  | +ChanRel_end(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |   |                                                                             |

|                                                                                                                                                                                                                                                                                                                                                             |                                                          |  |                                                                                                       |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------|----|
| 16                                                                                                                                                                                                                                                                                                                                                          | <b>ltree_sendHoCMD</b>                                   |  |                                                                                                       |    |
| 17                                                                                                                                                                                                                                                                                                                                                          | [TSPC_PGSM OR TSPC_EGSM]<br>LIDL_DatRqHoCmd              |  | HndOvSnd(TCV_ch,<br>HandOverCmd_28_B<br>2(TCV_Horf, TCV_ts,<br>TCV_Pwrlvl_ho,<br>TimingAdv_omit))     | 2. |
| 18                                                                                                                                                                                                                                                                                                                                                          | [TSPC_DCS]                                               |  |                                                                                                       |    |
| 19                                                                                                                                                                                                                                                                                                                                                          | LIDL_DatRqHoCmd                                          |  | HndOvSnd(TCV_ch,<br>HandOverCmd_28_B<br>2d(TCV_Horf,<br>TCV_ts,<br>TCV_Pwrlvl_ho,<br>TimingAdv_omit)) | 2. |
| 20                                                                                                                                                                                                                                                                                                                                                          | <b>localtree_setTchArfcn</b><br>[TSPC_PGSM OR TSPC_EGSM] |  |                                                                                                       |    |
| 21                                                                                                                                                                                                                                                                                                                                                          | (TCV_tch_arfcn:= C_arfcnA)                               |  |                                                                                                       |    |
| 22                                                                                                                                                                                                                                                                                                                                                          | [TSPC_DCS]                                               |  |                                                                                                       |    |
| 23                                                                                                                                                                                                                                                                                                                                                          | (TCV_tch_arfcn:= C_arfcnAd_4)                            |  |                                                                                                       |    |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                                                                   |                                                          |  |                                                                                                       |    |
| <ol style="list-style-type: none"> <li>1. Initiate a call and the last L2_frame with the Setup will not be acknowledged by the SS_L2.</li> <li>2. HO from SDCCH8_NonFH to SDCCH8_FH.</li> <li>3. Last L3-msg shall be retransmitted by the MS with the same sequence number of last L3-msg.</li> <li>4. Checking of the sending sequence number.</li> </ol> |                                                          |  |                                                                                                       |    |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                        |   |                                                                                   |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------|
| <b>Test Case Name:</b>      |       | TC_26_6_5_2_5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                        |   |                                                                                   |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                        |   |                                                                                   |
| <b>Purpose:</b>             |       | 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.                                                                                             |                                                                                                                        |   |                                                                                   |
| <b>Default:</b>             |       | OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                        |   |                                                                                   |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CRef                                                                                                                   | V | Comments                                                                          |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                        |   |                                                                                   |
| 2                           |       | +BasicServiceMO(TSPX_MOBscSvcH,<br>TSPX_MOChRateH)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                        |   |                                                                                   |
| 3                           |       | (TCV_ia_ts:= TSPX_TmSlitNotZero, TCV_ts:=<br>TSPX_TmSlitNotZero, TCV_Cntref:=<br>TSPX_NoOfHoAccE, TCV_Horf:= TSPX_HoRefE,<br>TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlB,<br>5))                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                        |   |                                                                                   |
| 4                           |       | +IdleUpdated(C_E_default, C_CellA,<br>C_SCH_A, C_BCCH_A_1, C_Immass, C_S0,<br>C_SlotNU, C_SlotNU, C_SlotNU, C_BCC,<br>C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0,<br>TimingAdv(30), C_BABR_0, C_cch_1nonComb,<br>C_BPM_3, C_T3212_0, C_ci_cellA,<br>C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01,<br>CellChDes_20_Aman, CellChDes_202_Adman,<br>C_CellReselectHys12, C_MaxPwrLvlG,<br>C_MaxPwrLvlD, BcchFreqLst_01,<br>BcchFreqLst_Omit, BcchFreqLst_48,<br>BcchFreqLst_Omit, C_noReestablishment,<br>C_BCC, C_NCC, C_Start_Tmsi,<br>TSPX_SDCCH4SubA, TSPX_CKSNDef,<br>TSPX_RANDDef, C_arfcnA, C_arfcnAd_4,<br>TSPX_IMSI, C_Test_fh, C_NCCP_10) |                                                                                                                        |   |                                                                                   |
| 5                           |       | +StartCellB_ho(C_E_suitable,<br>C_BCCHcarrierB_ho, C_BCCHcarrierB_hod,<br>C_Immass, TCV_slot, TCV_tsc,<br>TimingAdv(30), C_TxInt_5, C_Max_7,<br>C_NECI_0, C_ATT_0, C_BABR_0,<br>C_cch_1Comb, C_BPM_3, C_T3212_0,<br>C_MCC_1, C_PLMN_1, C_LAC_2,<br>CellChDes_20_Bman, CellChDes_201_Bd,<br>BcchFreqLst_01, BcchFreqLst_48,<br>C_noReestablishment, C_BCC_0, C_NCC_3,<br>TSPX_k, 0)                                                                                                                                                                                                                                                   |                                                                                                                        |   | The timeslots of Cells A<br>and B are not coincident<br>at the antenna connector. |
| 6                           |       | +FullRateCh_A_1_nociph(C_Immass,<br>TCV_ia_ts, TSPX_TscA, ChMod_sign,<br>FreqTCH(TSPX_TCHcarrierA_ho),<br>FreqTCH(TSPX_TCHcarrierA_hod),<br>TimingAdv(30), C_BABR_0,<br>C_cch_1nonComb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                        |   |                                                                                   |
| 7                           |       | +local_set_arfcn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                        |   |                                                                                   |
| 8                           |       | +HalfRateCh_B_1(TSPX_TCHHSubDef<br>, C_Asynho, TCV_ts, TSPX_TscB,<br>ChMod_sign,<br>FreqTCH(TSPX_TCHcarrierB_ho),<br>FreqTCH(TSPX_TCHcarrierB_hod),<br>TimingAdv(20), C_BABR_0,<br>C_cch_1nonComb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                        |   |                                                                                   |
| 9                           |       | +Est_MO_Call_init(C_CHTCHF_Non<br>FH, MobilAllc_omit, MobilAllc_omit,<br>TimingAdv(30), TSPX_TscA, C_one,<br>C_one)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                        |   | 1.                                                                                |
| 10                          |       | +localtree_varinit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                        |   |                                                                                   |
| 11                          | body  | LIDL_DatRqHoCmd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | HndOvSnd(TCV_ch,<br>HandOverCmd_25_B<br>1(TCV_Horf, TCV_ts,<br>TCV_tch_arfcn,<br>TCV_Pwrlvl_ho,<br>TCV_chdescr_arfcn)) |   | 2.                                                                                |
| 12                          |       | (TCV_ch:= TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                        |   |                                                                                   |
| 13                          |       | +RR_hocomp1(750,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                        |   |                                                                                   |

|                           |      |                                                                                                                                                                                                                                                                                                                                                      |                           |    |
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| 14                        |      | TimingAdv(20)<br>L?DL_DatInSetup<br>(TCV_Mt1 :=<br>DL_DatInSetup.msg.mt)                                                                                                                                                                                                                                                                             | SetupRcv(SetupInd_0<br>1) | 3. |
| 15                        |      | +SendSeqNo_chk                                                                                                                                                                                                                                                                                                                                       |                           | 4. |
| 16                        | post | +ChanRel_end(TCV_ch<br>)                                                                                                                                                                                                                                                                                                                             |                           |    |
|                           |      | <b>localtree_varinit</b>                                                                                                                                                                                                                                                                                                                             |                           |    |
| 17                        |      | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                                                                                                                                                                                                                             |                           |    |
| 18                        |      | (TCV_tch_arfcn := TSPX_TCHcarrierB_ho,<br>TCV_chdescr_arfcn := C_BCCHcarrierB_ho)                                                                                                                                                                                                                                                                    |                           |    |
| 19                        |      | [TSPC_DCS]                                                                                                                                                                                                                                                                                                                                           |                           |    |
| 20                        |      | (TCV_tch_arfcn := TSPX_TCHcarrierB_hod,<br>TCV_chdescr_arfcn := C_BCCHcarrierB_hod)                                                                                                                                                                                                                                                                  |                           |    |
|                           |      | <b>local_set_arfcn</b>                                                                                                                                                                                                                                                                                                                               |                           |    |
| 21                        |      | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                                                                                                                                                                                                                             |                           |    |
| 22                        |      | (TCV_tch_arfcn := TSPX_TCHcarrierA_ho, TCV_ch<br>:= TCV_chTch)                                                                                                                                                                                                                                                                                       |                           |    |
| 23                        |      | [TSPC_DCS]                                                                                                                                                                                                                                                                                                                                           |                           |    |
| 24                        |      | (TCV_tch_arfcn := TSPX_TCHcarrierA_hod,<br>TCV_ch := TCV_chTch)                                                                                                                                                                                                                                                                                      |                           |    |
| <b>Detailed Comments:</b> |      | <ol style="list-style-type: none"> <li>1. Initiate a call and last L2_frame with the Setup will not be acknowledged by the SS_L2.</li> <li>2. HO from TCH/F_NonFH to TCH/H_NonFH</li> <li>3. Last L3-msg shall be retransmitted by the MS with the same sequence number of last L3-msg.</li> <li>4. To check the sending sequence number.</li> </ol> |                           |    |

| Test Case Dynamic Behaviour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        |   |                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---|-----------------------------------------------------------------------------|
| <b>Test Case Name:</b> TC_26_6_5_2_6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        |   |                                                                             |
| <b>Group:</b> GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        |   |                                                                             |
| <b>Purpose:</b> 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. |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        |   |                                                                             |
| <b>Default:</b> OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        |   |                                                                             |
| Nr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CRef                   | V | Comments                                                                    |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |   |                                                                             |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +BasicServiceMO(TSPX_MOBscSvcl, TSPX_MOChRatel)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        |   |                                                                             |
| 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_Immasc, 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_20_Aman, CellChDes_202_Adman, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_10) |                        |   |                                                                             |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +StartCellB_ho(C_E_suitable, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Immasc, TCV_slot, TCV_tsc, TimingAdv(30), 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_0, C_NCC_3, TSPX_k, 0)                                                                                                                                                                                                                                    |                        |   | The timeslots of Cells A and B are not coincident at the antenna connector. |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +HalfRateCh_A_1_nociph(TSPX_TCHHSub Def, C_Immasc, 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |   |                                                                             |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +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)                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |   |                                                                             |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +Est_MO_Call_init(C_CHTCHH_FH, MobilAllc_20_A0, MobilAllc_20_A0, TimingAdv(30), TSPX_TscG, 17, 17)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |   | 1.                                                                          |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | body  | +local_HoCMD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |   |                                                                             |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | (TCV_ch := TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |   |                                                                             |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | +RR_hocomp1(500, TimingAdv(20))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        |   |                                                                             |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | L?DL_DatInSetup (TCV_Mt1 := DL_DatInSetup.msg.mt)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SetupRcv(SetupInd_0 1) |   | 3.                                                                          |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | +SendSeqNo_chk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |   | 4.                                                                          |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | post  | +ChanRel_end(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        |   |                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       | <b>local_HoCMD</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |   |                                                                             |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |   |                                                                             |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | L!DL_DatRqHoCmd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | HndOvSnd(TCV_ch,       |   | 2.                                                                          |

|                                                                                                                                                                                                                                                                                                                                                                                       |  |                                       |                                                                                                                                                                                                   |  |           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|
| <p>18<br/>19</p>                                                                                                                                                                                                                                                                                                                                                                      |  | <p>[TSPC_DCS]<br/>L!DL_DatRqHoCmd</p> | <p>HandOverCmd_22_B<br/>2(TCV_Horf, TCV_ts,<br/>TCV_Pwrlvl_ho,<br/>TSPX_TscF))<br/><br/>HndOvSnd(TCV_ch,<br/>HandOverCmd_22_B<br/>2d(TCV_Horf,<br/>TCV_ts,<br/>TCV_Pwrlvl_ho,<br/>TSPX_TscF))</p> |  | <p>2.</p> |
| <p><b>Detailed Comments:</b></p> <ol style="list-style-type: none"> <li>1. To initiate a call and the last L2_frame with the Setup will not be acknowledged by the SS_L2.</li> <li>2. HO from TCHH_FH to TCH/F_FH</li> <li>3. Last L3-msg shall be retransmitted by the MS with the same sequence number of last L3-msg.</li> <li>4. To check the sending sequence number.</li> </ol> |  |                                       |                                                                                                                                                                                                   |  |           |

| Test Case Dynamic Behaviour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                           |   |                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---|-----------------------------------------------------------------------------|
| <b>Test Case Name:</b> TC_26_6_5_2_7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                           |   |                                                                             |
| <b>Group:</b> GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                           |   |                                                                             |
| <b>Purpose:</b> 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. |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                           |   |                                                                             |
| <b>Default:</b> OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                           |   |                                                                             |
| Nr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CRef                      | V | Comments                                                                    |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                           |   |                                                                             |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +BasicServiceMO(TSPX_MOBscSvcJ,<br>TSPX_MOChRateJ)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                           |   |                                                                             |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | (TCV_ia_ts:= C_S0, TCV_ts:=<br>TSPX_TmSltNotZero, TCV_Cntref:=<br>TSPX_NoOfHoAccC, TCV_Horf:=<br>TSPX_HoRefG, TCV_Pwrlvl_ho:=<br>INT_TO_BIT(TSPX_PwrlvlC, 5))                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                           |   |                                                                             |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +IdleUpdated(C_E_default, C_CellA,<br>C_SCH_A, C_BCCH_A_1, C_Immass, C_S0,<br>C_SlotNU, C_SlotNU, C_SlotNU, C_BCC,<br>C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0,<br>TimingAdv(30), C_BABR_0, C_cch_1nonComb,<br>C_BPM_3, C_T3212_0, C_ci_cellA,<br>C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01,<br>CellChDes_20_Aman, CellChDes_202_Adman,<br>C_CellReselectHys12, C_MaxPwrLvlG,<br>C_MaxPwrLvlD, BcchFreqLst_01,<br>BcchFreqLst_Omit, BcchFreqLst_48,<br>BcchFreqLst_Omit, C_noReestablishment,<br>C_BCC, C_NCC, C_Start_Tmsi,<br>TSPX_SDCCH4SubA, TSPX_CKSNDef,<br>TSPX_RANDDef, C_arfcnA, C_arfcnAd_4,<br>TSPX_IMSI, C_Test_fh, C_NCCP_10) |                           |   |                                                                             |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +StartCellB_ho(C_E_suitable,<br>C_BCCHcarrierB_ho, C_BCCHcarrierB_hod,<br>C_Immass, TCV_slot, TCV_tsc,<br>TimingAdv(30), C_TxInt_5, C_Max_7,<br>C_NECI_0, C_ATT_0, C_BABR_0,<br>C_cch_1Comb, C_BPM_3, C_T3212_0,<br>C_MCC_1, C_PLMN_1, C_LAC_2,<br>CellChDes_20_Bman, CellChDes_201_Bd,<br>BcchFreqLst_01, BcchFreqLst_48,<br>C_noReestablishment, C_BCC_0, C_NCC_3,<br>TSPX_k, 0)                                                                                                                                                                                                                                                   |                           |   | The timeslots of Cells A and B are not coincident at the antenna connector. |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +FullRateCh_A_1_nociph(C_Immass,<br>TCV_ia_ts, TSPX_TscE, TCV_ChMod,<br>FreqTCHa_hof2, FreqTCHa_hof2d,<br>TimingAdv(30), C_BABR_0,<br>C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           |   |                                                                             |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | (TCV_ch := TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |   |                                                                             |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +FullRateCh_B_1(C_Asynho, TCV_ts,<br>TSPX_TscB, TCV_ChMod,<br>FreqTCHb_hof9, FreqTCHb_hof9d,<br>TimingAdv(TSPX_TimadvC),<br>C_BABR_0, C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           |   |                                                                             |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +Est_MO_Call_init(C_CHTCHF_FH,<br>MobiAllc_20_A2, MobiAllc_20_A2,<br>TimingAdv(30), TSPX_TscE, 1, 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                           |   | 1.                                                                          |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | body  | +Itree_hoCMD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           |   |                                                                             |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | (TCV_ch := TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |   |                                                                             |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | +RR_hocomp1(500,<br>TimingAdv(TSPX_TimadvC))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           |   |                                                                             |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | L?DL_DatInSetup (TCV_Mt1<br>:= DL_DatInSetup.msg.mt)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | SetupRcv(SetupInd_0<br>1) |   | 3.                                                                          |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | +SendSeqNo_chk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                           |   | 4.                                                                          |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | post  | +ChanRel_end(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                           |   |                                                                             |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | <b>Itree_hoCMD</b><br>[TSPC_PGSM OR TSPC_EGSM]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                           |   |                                                                             |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | L!DL_DatRqHoCmd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | HndOvSnd(TCV_ch,          |   | 2.                                                                          |



|                                  |  |                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                           |           |
|----------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| <p>18<br/>19</p>                 |  | <p>[TSPC_DCS]<br/>L!DL_DatRqHoCmd</p>                                                                                                                                                                                                                                                                                                                   | <p>HandOverCmd_22_B<br/>3(TCV_Horf, TCV_ts,<br/>TCV_Pwrlvl_ho,<br/>TimingAdv_omit,<br/>TCV_ChMod))<br/><br/>HndOvSnd(TCV_ch,<br/>HandOverCmd_22_B<br/>3d(TCV_Horf,<br/>TCV_ts,<br/>TCV_Pwrlvl_ho,<br/>TimingAdv_omit,<br/>TCV_ChMod))</p> | <p>2.</p> |
| <p><b>Detailed Comments:</b></p> |  | <ol style="list-style-type: none"> <li>1. To initiate a call and the last L2_frame with the Setup will not be acknowledged by the SS_L2.</li> <li>2. HO from TCHH_FH to TCH/F_FH</li> <li>3. Last L3-msg shall be retransmitted by the MS with the same sequence number of last L3-msg.</li> <li>4. Checking of the sending sequence number.</li> </ol> |                                                                                                                                                                                                                                           |           |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                          |   |                                                                                   |
|-----------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------|
| <b>Test Case Name:</b>      |       | TC_26_6_5_2_8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                          |   |                                                                                   |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                          |   |                                                                                   |
| <b>Purpose:</b>             |       | 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.                                                                                            |                                                                                                                                          |   |                                                                                   |
| <b>Default:</b>             |       | OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                          |   |                                                                                   |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                                                                                                                     | V | Comments                                                                          |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                          |   |                                                                                   |
| 2                           |       | +BasicServiceMO(TSPX_MOBscSvcB,<br>TSPX_MOChRateB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                          |   |                                                                                   |
| 3                           |       | (TCV_ia_ts:= TSPX_TmSlitNotZero, TCV_ts:=<br>C_S0, TCV_Cntref:= TSPX_NoOfHoAccA,<br>TCV_Horf:= TSPX_HoRefH, TCV_Pwrlvl_ho:=<br>INT_TO_BIT(TSPX_PwrlvlD, 5))                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                          |   |                                                                                   |
| 4                           |       | +IdleUpdated(C_E_default, C_CellA,<br>C_SCH_A, C_BCCH_A_1, C_Immass, C_S0,<br>C_SlotNU, C_SlotNU, C_SlotNU, C_BCC,<br>C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0,<br>TimingAdv(30), C_BABR_0, C_cch_1nonComb,<br>C_BPM_3, C_T3212_0, C_ci_cellA,<br>C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01,<br>CellChDes_20_Aman, CellChDes_202_Adman,<br>C_CellReselectHys12, C_MaxPwrLvlG,<br>C_MaxPwrLvlD, BcchFreqLst_01,<br>BcchFreqLst_Omit, BcchFreqLst_48,<br>BcchFreqLst_Omit, C_noReestablishment,<br>C_BCC, C_NCC, C_Start_Tmsi,<br>TSPX_SDCCH4SubA, TSPX_CKSNDf,<br>TSPX_RANDDef, C_arfcnA, C_arfcnAd_4,<br>TSPX_IMSI, C_Test_fh, C_NCCP_10) |                                                                                                                                          |   |                                                                                   |
| 5                           |       | +StartCellB_ho(C_E_suitable,<br>C_BCCHcarrierB_ho, C_BCCHcarrierB_hod,<br>C_Immass, TCV_slot, TCV_tsc,<br>TimingAdv(30), C_TxInt_5, C_Max_7,<br>C_NECI_0, C_ATT_0, C_BABR_0,<br>C_cch_1Comb, C_BPM_3, C_T3212_0,<br>C_MCC_1, C_PLMN_1, C_LAC_2,<br>CellChDes_20_Bman, CellChDes_201_Bd,<br>BcchFreqLst_01, BcchFreqLst_48,<br>C_noReestablishment, C_BCC_0, C_NCC_3,<br>TSPX_k, 0)                                                                                                                                                                                                                                                  |                                                                                                                                          |   | The timeslots of Cells A<br>and B are not coincident<br>at the antenna connector. |
| 6                           |       | +SDCCH8_A_1_nociph(TSPX_SDCCH8Su<br>bDef, C_Immass, TCV_ia_ts, TSPX_TscA,<br>ChMod_sign, FreqSDCCHa_hof1,<br>FreqSDCCHa_hof1d, TimingAdv(30),<br>C_BABR_0, C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                          |   |                                                                                   |
| 7                           |       | +FullRateCh_B_1(C_Asynho, TCV_ts,<br>TSPX_TscC, TCV_ChMod,<br>FreqTCH(TSPX_TCHcarrierB_ho),<br>FreqTCH(TSPX_TCHcarrierB_hod),<br>TimingAdv(20), C_BABR_0,<br>C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                          |   |                                                                                   |
| 8                           |       | +Est_MO_Call_init(C_CHSDCCH8_FH,<br>MobiAllc_281, MobiAllc_281d,<br>TimingAdv(30), TSPX_TscA, 1, 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                          |   | 1.                                                                                |
| 9                           |       | +local_varinit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                          |   |                                                                                   |
| 10                          | body  | L!DL_DatRqHoCmd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | HndOvSnd(TCV_ch,<br>HandOverCmd_21_B(<br>TCV_Horf, TCV_ts,<br>TCV_tch_arfcn,<br>TCV_Pwrlvl_ho,<br>TimingAdv_omit,<br>TCV_chdescr_arfcn)) |   | 2.                                                                                |
| 11                          |       | (TCV_ch := TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                          |   |                                                                                   |
| 12                          |       | +RR_hocomp1(500,<br>TimingAdv(20))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                          |   |                                                                                   |
| 13                          |       | L?DL_DatInSetup (TCV_Mt1<br>:= DL_DatInSetup.msg.mt)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SetupRcv(SetupInd_0<br>1)                                                                                                                |   | 3.                                                                                |
| 14                          |       | +SendSeqNo_chk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                          |   | 4.                                                                                |

|                           |      |                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |
|---------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| 15                        | post | +ChanRel_end(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                     |  |  |
| 16                        |      | <b>local_varinit</b>                                                                                                                                                                                                                                                                                                                                                                                     |  |  |
| 17                        |      | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                                                                                                                                                                                                                                                                                 |  |  |
| 18                        |      | (TCV_chdescr_arfcn := C_BCCHcarrierB_ho,<br>TCV_tch_arfcn:= TSPX_TCHcarrierB_ho)                                                                                                                                                                                                                                                                                                                         |  |  |
| 19                        |      | [TSPC_DCS]                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
|                           |      | (TCV_chdescr_arfcn := C_BCCHcarrierB_hod,<br>TCV_tch_arfcn:= TSPX_TCHcarrierB_hod)                                                                                                                                                                                                                                                                                                                       |  |  |
| <b>Detailed Comments:</b> |      | <ol style="list-style-type: none"> <li>1. To initiate a call and the last L2_frame with the Setup will not be acknowledged by the SS_L2.</li> <li>2. HO from TCHH_FH to TCH/F_FH</li> <li>3. Last L3-msg shall be retransmitted by the MS with the same sequence number of last L3-msg.</li> <li>4. To check whether the sending sequence number is matched with the last unacknowledged one.</li> </ol> |  |  |

| Test Case Dynamic Behaviour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |   |                                                                             |
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| <b>Test Case Name:</b> TC_26_6_5_2_9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |   |                                                                             |
| <b>Group:</b> GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |   |                                                                             |
| <b>Purpose:</b> 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. |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |   |                                                                             |
| <b>Default:</b> OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |   |                                                                             |
| Nr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CRef                  | V | Comments                                                                    |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |   |                                                                             |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +BasicServiceMO(TSPX_MOBscSvcA, TSPX_MOChRateA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |   |                                                                             |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | (TCV_ia_ts:= TSPX_TmSlfF, TCV_ts:= TSPX_TmSlfB, 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_Immasc, 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_20_Aman, CellChDes_202_Adman, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noReestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_10) |                       |   |                                                                             |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +StartCellB_ho(C_E_suitable, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Immasc, TCV_slot, TCV_tsc, TimingAdv(30), 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_noReestablishment, 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_A_1_nociph(TSPX_SDCCH8SubDef, C_Immasc, 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +local_setTimSlf                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |   |                                                                             |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +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)                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |   |                                                                             |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | +local_setTchArfcn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |   |                                                                             |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | +Est_MO_Call_init(C_CHSDCCH8_NonFH, MobilAllc_omit, MobilAllc_omit, TimingAdv(30), TSPX_TscA, C_one, C_one)                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |   | 1.                                                                          |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | body  | +ltree_HoCMD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |   |                                                                             |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | (TCV_ch:= C_FACCHF_B_1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                       |   |                                                                             |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | +RR_hocomp1(500, TimingAdv(20))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |   |                                                                             |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | L?DL_DatInSetup (TCV_Mt1 := DL_DatInSetup.msg.mt)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | SetupRcv(SetupInd_01) |   | 3.                                                                          |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | +SendSeqNo_chk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       |   | 4.                                                                          |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | post  | +ChanRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |   |                                                                             |

|    |                                             |  |                                                                                                                     |    |
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| 17 | <b>ltree_HoCMD</b>                          |  |                                                                                                                     |    |
| 18 | [TSPC_PGSM OR TSPC_EGSM]<br>LIDL_DatRqHoCmd |  | HndOvSnd(TCV_ch,<br>HandOverCmd_22_B<br>4(TCV_Horf, TCV_ts,<br>TCV_Pwrlvl_ho,<br>TimingAdv_omit,<br>TCV_ChMod))     | 2. |
| 19 | [TSPC_DCS]                                  |  |                                                                                                                     |    |
| 20 | LIDL_DatRqHoCmd                             |  | HndOvSnd(TCV_ch,<br>HandOverCmd_22_B<br>4d(TCV_Horf,<br>TCV_ts,<br>TCV_Pwrlvl_ho,<br>TimingAdv_omit,<br>TCV_ChMod)) | 2. |
|    | <b>local_setTchArfcn</b>                    |  |                                                                                                                     |    |
| 21 | [TSPC_PGSM OR TSPC_EGSM]                    |  |                                                                                                                     |    |
| 22 | (TCV_tch_arfcn:= C_arfcnC)                  |  |                                                                                                                     |    |
| 23 | [TSPC_DCS]                                  |  |                                                                                                                     |    |
| 24 | (TCV_tch_arfcn:= C_arfcn_tchAd)             |  |                                                                                                                     |    |
|    | <b>local_setTimSlit</b>                     |  |                                                                                                                     |    |
| 25 | [TSPC_PGSM OR TSPC_EGSM]                    |  |                                                                                                                     |    |
| 26 | (TCV_ts:= C_S0)                             |  |                                                                                                                     |    |
| 27 | [TSPC_DCS]                                  |  |                                                                                                                     |    |
| 28 | (TCV_ts := TSPX_TmSlitNotZero)              |  |                                                                                                                     |    |

|                           |                                                                                                                                                                                                                                                                                                                                             |
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| <b>Detailed Comments:</b> | <ol style="list-style-type: none"> <li>1. Initiate a call and L2_frame with the Setup will not be acknowledged by the SS_L2.</li> <li>2. HO from TCHH_FH to TCH/F_FH</li> <li>3. Last L3-msg shall be retransmitted by the MS with the same sequence number of last L3-msg.</li> <li>4. Checking of the sending sequence number.</li> </ol> |
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| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |   |                                                                             |
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| <b>Test Case Name:</b>      |       | TC_26_6_5_2_10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |   |                                                                             |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |   |                                                                             |
| <b>Purpose:</b>             |       | 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.                                               |                       |   |                                                                             |
| <b>Default:</b>             |       | OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |   |                                                                             |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CRef                  | V | Comments                                                                    |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |   |                                                                             |
| 2                           |       | +BasicServiceMO(TSPX_MOBscSvcC, TSPX_MOChRateC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |   |                                                                             |
| 3                           |       | (TCV_ia_ts:= TSPX_TmSlitG, TCV_ts:= TSPX_TmSlitNotZero, 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_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_20_Aman, CellChDes_202_Adman, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noReestablishment, 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                           |       | +StartCellB_ho(C_E_suitable, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), 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_noReestablishment, 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_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_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                            |                       |   |                                                                             |
| 7                           |       | +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)                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |   |                                                                             |
| 8                           |       | +localtree_TchArfcn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |   |                                                                             |
| 9                           |       | +Est_MO_Call_init(C_CHSDCCH8_NonFH, MobilAllc_omit, MobilAllc_omit, TimingAdv(30), TSPX_TscB, C_one, C_one)                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |   | 1.                                                                          |
| 10                          | body  | +ltree_sendHoCMD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |   |                                                                             |
| 11                          |       | (TCV_ch:= OC_SubchOfFacchh(TSPX_TCHHSubDef, C_CellB, 1))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |   |                                                                             |
| 12                          |       | +RR_hocomp1(750, TimingAdv(TSPX_TimadvB))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |   |                                                                             |
| 13                          |       | L?DL_DatInSetup (TCV_Mt1 := DL_DatInSetup.msg.mt)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SetupRcv(SetupInd_01) |   | 3.                                                                          |
| 14                          |       | +SendSeqNo_chk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |   | 4.                                                                          |
| 15                          | post  | +ChanRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |   |                                                                             |

|                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                      |                                                                                                                     |    |
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| 16<br>17                                                                                                                                                                                                                                                                                                                                                              | <b>ltree_sendHoCMD</b><br>[TSPC_PGSM OR TSPC_EGSM]<br>LIDL_DatRqHoCmd                                                                | HndOvSnd(TCV_ch,<br>HandOverCmd_24_B<br>4(TCV_Horf, TCV_ts,<br>TCV_Pwrlvl_ho,<br>TimingAdv_omit,<br>TCV_ChMod))     | 2. |
| 18<br>19                                                                                                                                                                                                                                                                                                                                                              | [TSPC_DCS]<br>LIDL_DatRqHoCmd                                                                                                        | HndOvSnd(TCV_ch,<br>HandOverCmd_24_B<br>4d(TCV_Horf,<br>TCV_ts,<br>TCV_Pwrlvl_ho,<br>TimingAdv_omit,<br>TCV_ChMod)) | 2. |
| 20<br>21<br>22<br>23                                                                                                                                                                                                                                                                                                                                                  | <b>localtree_TchArfcn</b><br>[TSPC_PGSM OR TSPC_EGSM]<br>(TCV_tch_arfcn:= C_arfcnC)<br>[TSPC_DCS]<br>(TCV_tch_arfcn:= C_arfcn_tchAd) |                                                                                                                     |    |
| <b>Detailed Comments:</b> <ol style="list-style-type: none"> <li>1. Initiate a call and L2_frame with the Setup will not be acknowledged by the SS_L2.</li> <li>2. HO from TCHH_FH to TCH/F_FH</li> <li>3. Last L3-msg shall be retransmitted by the MS with the same sequence number of last L3-msg.</li> <li>4. Checking of the sending sequence number.</li> </ol> |                                                                                                                                      |                                                                                                                     |    |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                 |   |                                                      |
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| <b>Test Case Name:</b>      |       | TC_26_6_5_3_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                 |   |                                                      |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                 |   |                                                      |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                 |   |                                                      |
| <b>Default:</b>             |       | OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                 |   |                                                      |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CRef                                                                                                                                            | V | Comments                                             |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                 |   |                                                      |
| 2                           |       | (TCV_asscmd_ts := TSPX_TmSlitNotZero1,<br>TCV_ts:= TSPX_TmSlitNotZero, TCV_Horf:=<br>TSPX_HoRefA, TCV_Pwrlvl_ho:=<br>INT_TO_BIT(TSPX_PwrlvlID, 5))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                 |   |                                                      |
| 3                           |       | +BasicServiceMT(TSPX_MTBscSvcl, C_Full)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                 |   |                                                      |
| 4                           |       | +IdleUpdated(C_E_default, C_CellA,<br>C_SCH_A, C_BCCH_A_1, C_Immass, C_S0,<br>C_SlotNU, C_SlotNU, C_SlotNU, C_BCC,<br>C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0,<br>TimingAdv(TSPX_y), C_BABR_0,<br>C_cch_1Comb, C_BPM_3, C_T3212_0,<br>C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1,<br>CellOpt_01, CellChDes_20_Aman,<br>CellChDes_202_Adman, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_01, BcchFreqLst_Omit,<br>BcchFreqLst_48, BcchFreqLst_Omit,<br>C_noReestablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubB,<br>TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_fh,<br>C_NCCP_2) |                                                                                                                                                 |   |                                                      |
| 5                           |       | +StartCellB_ho(C_E_suitable,<br>C_BCCHcarrierB_ho, C_BCCHcarrierB_hod,<br>C_Immass, TCV_slot, TCV_tsc,<br>TimingAdv(0), C_TxInt_5, C_Max_7,<br>C_NECI_0, C_ATT_0, C_BABR_0,<br>C_cch_1Comb, C_BPM_3, C_T3212_0,<br>C_MCC_1, C_PLMN_1, C_LAC_2,<br>CellChDes_20_Bman, CellChDes_201_Bd,<br>BcchFreqLst_01, BcchFreqLst_48,<br>C_noReestablishment, C_BCC, C_NCC,<br>TSPX_k, 0)                                                                                                                                                                                                                                                        |                                                                                                                                                 |   | BCCH of cell B is TSPX_k<br>bit periods after cell A |
| 6                           |       | +FullRateCh_B_1(C_Synho, TCV_ts,<br>TSPX_TscB, TCV_ChMod,<br>FreqTCH(C_BCCHcarrierB_ho),<br>FreqTCH(C_BCCHcarrierB_hod),<br>TimingAdv(2*TSPX_k + TSPX_y),<br>C_BABR_0, C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                 |   |                                                      |
| 7                           |       | +FullRateCh_A_1(C_Ass,<br>TCV_asscmd_ts, TSPX_TscDef,<br>TCV_ChMod, FreqTCHa_hof1,<br>FreqTCHa_hof1d, C_Noarfcn, C_Noarfcn,<br>TimingAdv(TSPX_y), C_BABR_0,<br>C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                 |   |                                                      |
| 8                           |       | +local_varinit1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                 |   |                                                      |
| 9                           |       | +Est_MT_Call_FH(TimingAdv(TSPX_<br>y), C_Full, TCV_maio)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                 |   | 1.                                                   |
| 10                          |       | +local_varinit2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                 |   |                                                      |
| 11                          |       | (TCV_Fn1:=<br>OM_ComingFn(TCV_chTch),<br>TCV_Null :=<br>OM_SendNextOn(TCV_chTch,<br>TCV_Fn1))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                 |   |                                                      |
| 12                          | body  | !DL_DatRqHoCmd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | HndOvSnd(TCV_chT<br>ch,<br>HandOverCmd_25_B<br>2(TCV_Horf, TCV_ts,<br>TCV_chdescr_arfcn,<br>TCV_Pwrlvl_ho,<br>TCV_chdescr_arfcn,<br>TCV_ChMod)) |   | 2.                                                   |
| 13                          |       | (TCV_ch := C_FACCHF_B_1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                 |   |                                                      |



|                           |      |                                                                                                                                                                                                                                            |  |    |
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| 14                        |      | +RR_hocomp3(650)                                                                                                                                                                                                                           |  |    |
| 15                        |      | +Timadv_Pwrlvl_chk(TSP<br>X_k, TSPX_y,<br>TCV_Pwrlvl_ho)                                                                                                                                                                                   |  | 3. |
| 16                        | post | +ChanRel_end(TCV_ch<br>)                                                                                                                                                                                                                   |  |    |
|                           |      | <b>local_varinit1</b>                                                                                                                                                                                                                      |  |    |
| 17                        |      | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                                                                                                                   |  |    |
| 18                        |      | (TCV_chdescr_arfcn:= C_arfcnA, TCV_maio :=<br>INT_TO_BIT((TSPX_MAI0 MOD 12), 6))                                                                                                                                                           |  |    |
| 19                        |      | [TSPC_DCS]                                                                                                                                                                                                                                 |  |    |
| 20                        |      | (TCV_chdescr_arfcn:= C_arfcnAd, TCV_maio :=<br>INT_TO_BIT((TSPX_MAI0 MOD 9), 6))                                                                                                                                                           |  |    |
|                           |      | <b>local_varinit2</b>                                                                                                                                                                                                                      |  |    |
| 21                        |      | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                                                                                                                   |  |    |
| 22                        |      | (TCV_chdescr_arfcn := C_BCCHcarrierB_ho)                                                                                                                                                                                                   |  |    |
| 23                        |      | [TSPC_DCS]                                                                                                                                                                                                                                 |  |    |
| 24                        |      | (TCV_chdescr_arfcn := C_BCCHcarrierB_hod)                                                                                                                                                                                                  |  |    |
| <b>Detailed Comments:</b> |      | <ol style="list-style-type: none"> <li>1. IUT enters state U10 with TCH/F_FH in cell A</li> <li>2. HO from TCH/F_FH of cell A to TCH/F_nonFH in CELL B.</li> <li>3. To check the power level and timing advance in the L1 head.</li> </ol> |  |    |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                 |   |                                                      |
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| <b>Test Case Name:</b>      |       | TC_26_6_5_3_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                 |   |                                                      |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                 |   |                                                      |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                 |   |                                                      |
| <b>Default:</b>             |       | OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                 |   |                                                      |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                                                                                                                            | V | Comments                                             |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                 |   |                                                      |
| 2                           |       | (TCV_asscmd_ts := TSPX_TmSlitNotZero1,<br>TCV_ts:= TSPX_TmSlitNotZero, TCV_Horf:=<br>TSPX_HoRefB, TCV_Pwrlvl_ho:=<br>INT_TO_BIT(TSPX_PwrlvlC, 5))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                 |   |                                                      |
| 3                           |       | +BasicServiceMT(TSPX_MTBscSvcl, C_Half)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                 |   |                                                      |
| 4                           |       | +IdleUpdated(C_E_default, C_CellA,<br>C_SCH_A, C_BCCH_A_1, C_Immass, C_S0,<br>C_SlotNU, C_SlotNU, C_SlotNU, C_BCC,<br>C_TxInt_5, C_Max_7, C_NECl_0, C_ATT_0,<br>TimingAdv(TSPX_y), C_BABR_0,<br>C_cch_1Comb, C_BPM_3, C_T3212_0,<br>C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1,<br>CellOpt_01, CellChDes_20_Aman,<br>CellChDes_202_Adman, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_01, BcchFreqLst_Omit,<br>BcchFreqLst_48, BcchFreqLst_Omit,<br>C_noRestablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubB,<br>TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_fh,<br>C_NCCP_2) |                                                                                                                                                 |   |                                                      |
| 5                           |       | +StartCellB_ho(C_E_suitable,<br>C_BCCHcarrierB_ho, C_BCCHcarrierB_hod,<br>C_Immass, TCV_slot, TCV_tsc,<br>TimingAdv(0), C_TxInt_5, C_Max_7,<br>C_NECl_0, C_ATT_0, C_BABR_0,<br>C_cch_1Comb, C_BPM_3, C_T3212_0,<br>C_MCC_1, C_PLMN_1, C_LAC_2,<br>CellChDes_20_Bman, CellChDes_201_Bd,<br>BcchFreqLst_01, BcchFreqLst_48,<br>C_noRestablishment, C_BCC, C_NCC,<br>TSPX_k, 0)                                                                                                                                                                                                                                                        |                                                                                                                                                 |   | BCCH of cell B is TSPX_k<br>bit periods after cell A |
| 6                           |       | +HalfRateCh_B_1(TSPX_TCHHSubDef,<br>C_Synho, TCV_ts, TSPX_TscC,<br>TCV_ChMod,<br>FreqTCH(C_BCCHcarrierB_ho),<br>FreqTCH(C_BCCHcarrierB_hod),<br>TimingAdv(2*TSPX_k + TSPX_y),<br>C_BABR_0, C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                 |   |                                                      |
| 7                           |       | +HalfRateCh_A_1(TSPX_TCHHSubDef,<br>C_Ass, TCV_asscmd_ts, TSPX_TscDef,<br>TCV_ChMod, FreqTCHa_hof1,<br>FreqTCHa_hof1d, C_Noarfcn, C_Noarfcn,<br>TimingAdv(TSPX_y), C_BABR_0,<br>C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                 |   |                                                      |
| 8                           |       | +localtree_varinit1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                 |   |                                                      |
| 9                           |       | +Est_MT_Call_FH(TimingAdv(TSPX_<br>y), C_Half, TCV_maio)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                 |   | 1.                                                   |
| 10                          |       | +localtree_varinit2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                 |   |                                                      |
| 11                          |       | (TCV_Fn1:=<br>OM_ComingFn(TCV_chTch),<br>TCV_Null :=<br>OM_SendNextOn(TCV_chTch,<br>TCV_Fn1))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                 |   |                                                      |
| 12                          | body  | L!DL_DatRqHoCmd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | HndOvSnd(TCV_chT<br>ch,<br>HandOverCmd_25_B<br>3(TCV_Horf, TCV_ts,<br>TCV_chdescr_arfcn,<br>TCV_Pwrlvl_ho,<br>TCV_chdescr_arfcn,<br>TCV_ChMod)) |   | 2.                                                   |

|                           |      |                                                                                                                                                                                                                                            |  |    |
|---------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|
| 13                        |      | (TCV_ch:=<br>OC_SubchOfFacchh(<br>TSPX_TCHHSubDef,<br>C_CellB, 1))                                                                                                                                                                         |  |    |
| 14                        |      | +RR_hocomp3(500)                                                                                                                                                                                                                           |  |    |
| 15                        |      | +Timadv_Pwrlvl_chk(TSP<br>X_k, TSPX_y,<br>TCV_Pwrlvl_ho)                                                                                                                                                                                   |  | 3. |
| 16                        | post | +ChanRel_end(TCV_ch<br>)                                                                                                                                                                                                                   |  |    |
|                           |      | <b>localtree_varinit1</b>                                                                                                                                                                                                                  |  |    |
| 17                        |      | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                                                                                                                   |  |    |
| 18                        |      | (TCV_chdescr_arfcn:= C_arfcnA, TCV_maio :=<br>INT_TO_BIT((TSPX_MAIO MOD 12), 6))                                                                                                                                                           |  |    |
| 19                        |      | [TSPC_DCS]                                                                                                                                                                                                                                 |  |    |
| 20                        |      | (TCV_chdescr_arfcn:= C_arfcnAd, TCV_maio :=<br>INT_TO_BIT((TSPX_MAIO MOD 9), 6))                                                                                                                                                           |  |    |
|                           |      | <b>localtree_varinit2</b>                                                                                                                                                                                                                  |  |    |
| 21                        |      | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                                                                                                                   |  |    |
| 22                        |      | (TCV_chdescr_arfcn := C_BCCHcarrierB_ho)                                                                                                                                                                                                   |  |    |
| 23                        |      | [TSPC_DCS]                                                                                                                                                                                                                                 |  |    |
| 24                        |      | (TCV_chdescr_arfcn := C_BCCHcarrierB_hod)                                                                                                                                                                                                  |  |    |
| <b>Detailed Comments:</b> |      | <ol style="list-style-type: none"> <li>1. IUT enters state U10 with TCH/H_FH in cell A</li> <li>2. HO from TCH/H_FH of cell A to TCH/H_nonFH in CELL B.</li> <li>3. To check the power level and timing advance in the L1 head.</li> </ol> |  |    |

| Test Case Dynamic Behaviour                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                     |   |                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> TC_26_6_5_4_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                     |   |                                                                                                                                                                              |
| <b>Group:</b> GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                     |   |                                                                                                                                                                              |
| <b>Purpose:</b> 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. |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                     |   |                                                                                                                                                                              |
| <b>Default:</b> OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                     |   |                                                                                                                                                                              |
| Nr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CRef                | V | Comments                                                                                                                                                                     |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     |   |                                                                                                                                                                              |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | +BasicServiceMO(TSPX_MOBscSvcD,<br>TSPX_MOChRateD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     |   |                                                                                                                                                                              |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | (TCV_ia_ts:= TSPX_TmSlitNotZero, TCV_ts:=<br>TSPX_TmSlitNotZero, TCV_Cntref:=<br>TSPX_NoOfHoAccA, TCV_Horf:= TSPX_HoRefA,<br>TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlA,<br>5))                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     |   |                                                                                                                                                                              |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | +IdleUpdated(C_E_default, C_CellA,<br>C_SCH_A, C_BCCH_A_1, C_Immass, C_S0,<br>C_SlotNU, C_SlotNU, C_SlotNU, C_BCC,<br>C_TxInt_5, C_Max_7, C_NECl_0, C_ATT_0,<br>TimingAdv(TSPX_y), C_BABR_0,<br>C_cch_1nonComb, C_BPM_3, C_T3212_1,<br>C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1,<br>CellOpt_01, CellChDes_20_Aman,<br>CellChDes_202_Adman, C_CellReselectHys12,<br>C_MaxPwrlvlG, C_MaxPwrlvlD,<br>BcchFreqLst_01, BcchFreqLst_Omit,<br>BcchFreqLst_48, BcchFreqLst_Omit,<br>C_noRestablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd_4, TSPX_IMSI, C_Test_fh,<br>C_NCCP_2) |                     |   |                                                                                                                                                                              |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | +StartCellB_ho(C_E_suitable,<br>C_BCCHcarrierB_ho, C_BCCHcarrierB_hod,<br>C_Immass, TCV_slot, TCV_tsc,<br>TimingAdv(0), C_TxInt_5, C_Max_7,<br>C_NECl_0, C_ATT_0, C_BABR_0,<br>C_cch_1nonComb, C_BPM_3, C_T3212_1,<br>C_MCC_1, C_PLMN_1, C_LAC_2,<br>CellChDes_20_Bman, CellChDes_201_Bd,<br>BcchFreqLst_01, BcchFreqLst_48,<br>C_noRestablishment, C_BCC, C_NCC,<br>TSPX_k, 100)                                                                                                                                                                                                                                                          |                     |   | The BCCH of cell B is k bit periods after BCCH of cell A to simulate the two cells have different propagation delay. The frame numbers of the two cells is different by 100. |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | +SDCCH8_A_1_nociph(TSPX_SDCCH8Su<br>bDef, C_Immass, TCV_ia_ts, TSPX_TscC,<br>ChMod_sign, FreqSDCCHa_hof2,<br>FreqSDCCHa_hof2d, TimingAdv(TSPX_y),<br>C_BABR_0, C_cch_1nonComb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                     |   |                                                                                                                                                                              |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | +SDCCH8_B_1(TSPX_SDCCH8SubDef,<br>C_Synho, TCV_ts, TSPX_TscA,<br>ChMod_sign, FreqSDCCH8b_hof3,<br>FreqSDCCH8b_hof2d,<br>TimingAdv((2*TSPX_k + TSPX_y) MOD<br>256), C_BABR_0, C_cch_1nonComb,<br>C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                                   |                     |   |                                                                                                                                                                              |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | +Est_MO_Call_init(C_CHSDCCH8_FH,<br>MoblAllc_282, MoblAllc_20_B1,<br>TimingAdv(TSPX_y), TSPX_TscC, 16,<br>16)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |   | 1.                                                                                                                                                                           |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | (TCV_Fn1:=<br>OM_ComingFn(TCV_chTch),<br>TCV_Null :=<br>OM_SendNextOn(TCV_chTch,<br>TCV_Fn1))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |   |                                                                                                                                                                              |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | body  | +ltree_hoCMD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     |   |                                                                                                                                                                              |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | (TCV_ch := TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |   |                                                                                                                                                                              |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | +RR_hocomp3(1500)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |   |                                                                                                                                                                              |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | +Timadv_Pwrlvl_chk(TSPX_k<br>, TSPX_y, TCV_Pwrlvl_ho)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |   | 3.                                                                                                                                                                           |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | L?DL_DatInSetup (TCV_Mt1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SetupRcv(SetupInd_0 |   | 4.                                                                                                                                                                           |

|                                                                                                   |      |                                                |                                                                                                       |    |
|---------------------------------------------------------------------------------------------------|------|------------------------------------------------|-------------------------------------------------------------------------------------------------------|----|
| 15                                                                                                |      | :=DL_DatInSetup.msg.mt)                        | 1)                                                                                                    |    |
| 16                                                                                                | post | +SendSeqNo_chk<br>+ChanRel_end(TCV_ch)         |                                                                                                       | 5. |
| 17                                                                                                |      | <b>ltree_hoCMD</b><br>[TSPC_PGSM OR TSPC_EGSM] |                                                                                                       |    |
| 18                                                                                                |      | L!DL_DatRqHoCmd                                | HndOvSnd(TCV_ch,<br>HandOverCmd_28_B<br>3(TCV_Horf, TCV_ts,<br>TCV_Pwrlvl_ho,<br>TimingAdv_omit))     | 2. |
| 19                                                                                                |      | [TSPC_DCS]                                     |                                                                                                       |    |
| 20                                                                                                |      | L!DL_DatRqHoCmd                                | HndOvSnd(TCV_ch,<br>HandOverCmd_28_B<br>3d(TCV_Horf,<br>TCV_ts,<br>TCV_Pwrlvl_ho,<br>TimingAdv_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                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                      |   |                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> TC_26_6_5_4_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                      |   |                                                                                                                                                                              |
| <b>Group:</b> GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                      |   |                                                                                                                                                                              |
| <b>Purpose:</b> 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. |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                      |   |                                                                                                                                                                              |
| <b>Default:</b> OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                      |   |                                                                                                                                                                              |
| Nr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CRef                                                                 | V | Comments                                                                                                                                                                     |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                      |   |                                                                                                                                                                              |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | +BasicServiceMO(TSPX_MOBscSvcE, TSPX_MOChRateE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                      |   |                                                                                                                                                                              |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | (TCV_ia_ts:= TSPX_TmSlitNotZero, TCV_ts:= C_S0, 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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                                                      |   |                                                                                                                                                                              |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | +StartCellB_ho(C_E_suitable, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Synho, TCV_slot, TCV_tsc, TimingAdv((2*TSPX_k + TSPX_y) MOD 256), 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. |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | (TCV_ch1 := OC_SubchOfSdcch4(TSPX_SDCCH4SubDef, C_CellB), TCV_Null := OM_CphMd(TCV_ch1, CphMod_01, TCV_CphKey))                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                      |   | put the handover target channel in ciphering mode                                                                                                                            |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | +local_set_DCS_Slot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                      |   |                                                                                                                                                                              |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | +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_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                      |   |                                                                                                                                                                              |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | +Est_MO_Call_init(C_CHSDCCH8_FH, Mobillic_20_A3, Mobillic_20_A3d, TimingAdv(TSPX_y), TSPX_TscF, 15, 15)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                      |   | 1.                                                                                                                                                                           |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | (TCV_Fn := OM_ComingFn(TCV_ch), TCV_Null:= OM_SendNextOn(TCV_ch, TCV_Fn), TCV_Fn1 := TCV_Fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                      |   |                                                                                                                                                                              |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | body  | +local_set_arfcn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                      |   |                                                                                                                                                                              |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | L!DL_DatRqHoCmd ( DL_DatRqHoCmd.msg.str:= OC_StartTime(TCV_Fn, C_StartingTimeHO, 1))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | HndOvSnd(TCV_ch, HandOverCmd_27_B1(TSPX_HoRefB, C_S0, TCV_tch_arfcn, |   | 2.                                                                                                                                                                           |

|                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                       |    |
|---------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----|
| 13                        |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                        | TCV_Pwrlvl_ho,<br>TCV_chdescr_arfcn)) |    |
| 14                        |      | (TCV_ch := TCV_ch1)                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                       |    |
| 15                        |      | +RR_hocomp3(2600)                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                       |    |
| 16                        |      | +Timadv_Pwrlvl_chk(TSP<br>X_k, TSPX_y,<br>TCV_Pwrlvl_ho)                                                                                                                                                                                                                                                                                                                                                                                               |                                       | 3. |
| 17                        |      | L?DL_DatInSetup<br>(TCV_Mt1 :=<br>DL_DatInSetup.msg.mt)                                                                                                                                                                                                                                                                                                                                                                                                | SetupRcv(SetupInd_0<br>1)             | 4. |
| 18                        | post | +SendSeqNo_chk<br>+ChanRel_end(TCV_<br>ch)                                                                                                                                                                                                                                                                                                                                                                                                             |                                       | 5. |
| 19                        |      | <b>local_set_DCS_Slot</b><br>[TSPC_PGSM OR TSPC_EGSM]                                                                                                                                                                                                                                                                                                                                                                                                  |                                       |    |
| 20                        |      | [TSPC_DCS]                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                       |    |
| 21                        |      | (TCV_ia_ts := C_S0)                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                       |    |
| 22                        |      | <b>local_set_arfcn</b><br>[TSPC_PGSM OR TSPC_EGSM]                                                                                                                                                                                                                                                                                                                                                                                                     |                                       |    |
| 23                        |      | (TCV_tch_arfcn := C_BCCHcarrierB_ho,<br>TCV_chdescr_arfcn := C_BCCHcarrierB_ho)                                                                                                                                                                                                                                                                                                                                                                        |                                       |    |
| 24                        |      | [TSPC_DCS]                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                       |    |
| 25                        |      | (TCV_tch_arfcn := C_BCCHcarrierB_hod,<br>TCV_chdescr_arfcn := C_BCCHcarrierB_hod)                                                                                                                                                                                                                                                                                                                                                                      |                                       |    |
| <b>Detailed Comments:</b> |      | <ol style="list-style-type: none"> <li>1. To initiate a call and the last L2_frame with the Setup will not be acknowledged by the SS_L2.</li> <li>2. HO from SDCCH/8_FH to SDCCH/4_NoFH</li> <li>3. To check whether the power level and timing advance in the L1 head is correct.</li> <li>4. Last L3-msg shall be retransmitted by the MS with the same sequence number of last L3-msg.</li> <li>5. To check the sending sequence number.</li> </ol> |                                       |    |

| Test Case Dynamic Behaviour                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                     |   |                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> TC_26_6_5_4_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                     |   |                                                                                                                                                                              |
| <b>Group:</b> GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                     |   |                                                                                                                                                                              |
| <b>Purpose:</b> 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. |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                     |   |                                                                                                                                                                              |
| <b>Default:</b> OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                     |   |                                                                                                                                                                              |
| Nr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CRef                | V | Comments                                                                                                                                                                     |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |   |                                                                                                                                                                              |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | +BasicServiceMO(TSPX_MOBscSvcF, TSPX_MOChRateF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                     |   |                                                                                                                                                                              |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | (TCV_ia_ts:= TSPX_TmSlitNotZero, 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_NECl_0, C_ATT_0, TimingAdv(0), C_BABR_0, 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_noReestablishment, 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_suitable, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Immass, TCV_slot, TCV_tsc, TimingAdv(0), C_TxInt_5, C_Max_7, C_NECl_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_noReestablishment, C_BCC, C_NCC, TSPX_k, 100)                                                                                                                                                                                                                                 |                     |   | The BCCH of cell B is k bit periods after BCCH of cell A to simulate the two cells have different propagation delay. The frame numbers of the two cells is different by 100. |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | +FullRateCh_A_1_nociph(C_Immass, TCV_ia_ts, TSPX_TscD, TCV_ChMod, FreqTCH(C_arfcnA), FreqTCH(C_arfcnAd_4), TimingAdv(TSPX_y), C_BABR_0, C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |   |                                                                                                                                                                              |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | (TCV_ch := TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |   |                                                                                                                                                                              |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | +FullRateCh_B_1(C_Synho, TCV_ts, TSPX_TscB, TCV_ChMod, FreqTCHb_hof8, FreqTCHb_hof8d, TimingAdv(2*TSPX_k + TSPX_y), C_BABR_0, C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                               |                     |   |                                                                                                                                                                              |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | +local_set_arfcn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |   |                                                                                                                                                                              |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | +local_continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                     |   |                                                                                                                                                                              |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | <b>local_continue</b><br>+Est_MO_Call_init(C_CHTCHF_NonFH, MobilAllc_omit, MobilAllc_omit, TimingAdv(TSPX_y), TSPX_TscD, C_one, C_one)                                                                                                                                                                                                                                                                                                                                                                                                                                            |                     |   | 1.                                                                                                                                                                           |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | (TCV_Fn1:= OM_ComingFn(TCV_ch), TCV_Null := OM_SendNextOn(TCV_ch, TCV_Fn1))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |   |                                                                                                                                                                              |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | body  | +ltree_hoCMD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |   | 2.                                                                                                                                                                           |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | (TCV_ch := C_FACCHF_B_1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |   |                                                                                                                                                                              |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | +RR_hocomp3(650)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |   |                                                                                                                                                                              |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | +Timadv_Pwrlvl_chk(TSPX_k, TSPX_y, TCV_Pwrlvl_ho)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                     |   | 3.                                                                                                                                                                           |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | L?DL_DatInSetup (TCV_Mt1 :=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | SetupRcv(SetupInd_0 |   | 4.                                                                                                                                                                           |



|                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                                    |                                                                                                                     |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----|
| 18                                                                                                                                                                                                                                                                                                                                                                                                                            |      | DL_DatInSetup.msg.mt)                              | 1)                                                                                                                  |    |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                            | post | +SendSeqNo_chk<br>+ChanRel_end(TCV_ch)             |                                                                                                                     | 5. |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                            |      | <b>Itree_hoCMD</b><br>[TSPC_PGSM OR TSPC_EGSM]     |                                                                                                                     |    |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                            |      | LIDL_DatRqHoCmd                                    | HndOvSnd(TCV_ch,<br>HandOverCmd_22_B<br>5(TCV_Horf, TCV_ts,<br>TCV_Pwrlvl_ho,<br>TimingAdv_omit,<br>TCV_ChMod))     |    |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                            |      | [TSPC_DCS]                                         |                                                                                                                     |    |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                            |      | LIDL_DatRqHoCmd                                    | HndOvSnd(TCV_ch,<br>HandOverCmd_22_B<br>5d(TCV_Horf,<br>TCV_ts,<br>TCV_Pwrlvl_ho,<br>TimingAdv_omit,<br>TCV_ChMod)) |    |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                            |      | <b>local_set_arfcn</b><br>[TSPC_PGSM OR TSPC_EGSM] |                                                                                                                     |    |
| 25                                                                                                                                                                                                                                                                                                                                                                                                                            |      | (TCV_tch_arfcn := C_arfcnA)                        |                                                                                                                     |    |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                            |      | [TSPC_DCS]                                         |                                                                                                                     |    |
| 27                                                                                                                                                                                                                                                                                                                                                                                                                            |      | (TCV_tch_arfcn := C_arfcnAd_4)                     |                                                                                                                     |    |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                     |      |                                                    |                                                                                                                     |    |
| <ol style="list-style-type: none"> <li>1. To initiate a call and the last L2_frame with the Setup will not be acknowledged by the SS_L2.</li> <li>2. HO from TCH/F_NoFH to TCH/F_FH</li> <li>3. To check the power level and timing advance in L1 head</li> <li>4. Last L3-msg shall be retransmitted by the MS with the same sequence number of last L3-msg.</li> <li>5. Checking of the sending sequence number.</li> </ol> |      |                                                    |                                                                                                                     |    |

| Test Case Dynamic Behaviour                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                     |   |                                                                                                                                                                              |
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| <b>Test Case Name:</b> TC_26_6_5_4_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                     |   |                                                                                                                                                                              |
| <b>Group:</b> GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                     |   |                                                                                                                                                                              |
| <b>Purpose:</b> 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. |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                     |   |                                                                                                                                                                              |
| <b>Default:</b> OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                     |   |                                                                                                                                                                              |
| Nr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                                | V | Comments                                                                                                                                                                     |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                     |   |                                                                                                                                                                              |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | +BasicServiceMO(TSPX_MOBscSvcG, TSPX_MOChRateG)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                     |   |                                                                                                                                                                              |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | (TCV_ia_ts:= TSPX_TmSltE, TCV_ts:= TSPX_TmSltNotZero, TCV_Horf:= TSPX_HoRefD, TCV_Pwrlvl_ho:= INT_TO_BIT(TSPX_PwrlvlD, 5))                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                     |   |                                                                                                                                                                              |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | +IdleUpdated(C_E_default, C_Cella, C_SCH_A, C_BCCH_A_1, C_Immass, C_SO, 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_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_noReestablishment, 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_suitable, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Immass, TCV_slot, TCV_tsc, TimingAdv(0), 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_noReestablishment, C_BCC, C_NCC, TSPX_k, 100)                                                                                                                                                                                                                                  |                                                                     |   | The BCCH of cell B is k bit periods after BCCH of cell A to simulate the two cells have different propagation delay. The frame numbers of the two cells is different by 100. |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | +SDCCH8_A_1_nociph(TSPX_SDCCH8SubDef, C_Immass, TCV_ia_ts, TSPX_TscDef, ChMod_sign, FreqTCH(TSPX_TCHcarrierA_ho), FreqTCH(TSPX_TCHcarrierA_hod), TimingAdv(TSPX_y), C_BABR_0, C_cch_1nonComb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                |                                                                     |   |                                                                                                                                                                              |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | +FullRateCh_B_1(C_Synho, TCV_ts, TSPX_TscA, TCV_ChMod, FreqTCH(TSPX_TCHcarrierB_ho), FreqTCH(TSPX_TCHcarrierB_hod), TimingAdv(2*TSPX_k + TSPX_y), C_BABR_0, C_cch_1nonComb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                     |   |                                                                                                                                                                              |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | +local_set_arfcn1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                     |   |                                                                                                                                                                              |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       | +Est_MO_Call_init(C_CHSDCCH8_NonFH, MobilAllc_omit, MobilAllc_omit, TimingAdv(TSPX_y), TSPX_TscDef, C_one, C_one)                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                     |   | 1.                                                                                                                                                                           |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | +local_set_arfcn2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                     |   |                                                                                                                                                                              |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | (TCV_Fn1:= OM_ComingFn(TCV_ch), TCV_Null := OM_SendNextOn(TCV_ch, TCV_Fn1))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                     |   |                                                                                                                                                                              |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | body  | !DL_DatRqHoCmd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | HndOvSnd(TCV_ch, HandOverCmd_27_B2(TCV_Horf, TCV_ts, TCV_tch_arfcn, |   | 2.                                                                                                                                                                           |

|    |      |                                                                                     |                                                                                                                                                                                                                                                                                                                       |    |  |
|----|------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--|
| 13 |      | +local_continue                                                                     | TCV_Pwrlvl_ho,<br>TCV_chdescr_arfcn))                                                                                                                                                                                                                                                                                 |    |  |
| 14 |      | <b>local_continue</b>                                                               |                                                                                                                                                                                                                                                                                                                       |    |  |
| 15 |      | (TCV_ch := C_FACCHF_B_1)                                                            |                                                                                                                                                                                                                                                                                                                       |    |  |
| 16 |      | +RR_hocomp3(650)                                                                    |                                                                                                                                                                                                                                                                                                                       |    |  |
| 17 |      | +Timadv_Pwrlvl_chk(TSPX_k, TSPX_y,<br>TCV_Pwrlvl_ho)                                |                                                                                                                                                                                                                                                                                                                       | 3. |  |
| 18 |      | L?DL_DatInSetup (TCV_Mt1<br>:=DL_DatInSetup.msg.mt)                                 | SetupRcv(SetupInd_0<br>1)                                                                                                                                                                                                                                                                                             |    |  |
| 19 | post | +SendSeqNo_chk<br>+ChanRel_end(TCV_ch)                                              |                                                                                                                                                                                                                                                                                                                       | 4. |  |
| 20 |      | <b>local_set_arfcn2</b>                                                             |                                                                                                                                                                                                                                                                                                                       |    |  |
| 21 |      | [TSPC_PGSM OR TSPC_EGSM]                                                            |                                                                                                                                                                                                                                                                                                                       |    |  |
| 22 |      | (TCV_chdescr_arfcn := C_BCCHcarrierB_ho,<br>TCV_tch_arfcn := TSPX_TCHcarrierB_ho)   |                                                                                                                                                                                                                                                                                                                       |    |  |
| 23 |      | [TSPC_DCS]                                                                          |                                                                                                                                                                                                                                                                                                                       |    |  |
| 24 |      | (TCV_chdescr_arfcn := C_BCCHcarrierB_hod,<br>TCV_tch_arfcn := TSPX_TCHcarrierB_hod) |                                                                                                                                                                                                                                                                                                                       |    |  |
| 25 |      | <b>local_set_arfcn1</b>                                                             |                                                                                                                                                                                                                                                                                                                       |    |  |
| 26 |      | [TSPC_PGSM OR TSPC_EGSM]                                                            |                                                                                                                                                                                                                                                                                                                       |    |  |
| 27 |      | (TCV_tch_arfcn := TSPX_TCHcarrierA_ho)                                              |                                                                                                                                                                                                                                                                                                                       |    |  |
|    |      | <b>Detailed Comments:</b>                                                           | <ol style="list-style-type: none"> <li>1. To initiate a call and the last L2_frame with the Setup will not be acknowledged by the SS_L2.</li> <li>2. HO from SDCCH/8_FH to TCH/F_NoFH</li> <li>3. To check power level and timing advance in the L1 head</li> <li>4. To check the sending sequence number.</li> </ol> |    |  |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |     |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_6_5_5_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                |     |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                                                                                   |                                                |     |          |
| <b>Default:</b>             |       | OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CRef                                           | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                |     |          |
| 2                           |       | +BasicServiceMT(TSPX_MTBscSvcA,<br>TSPX_MTChRateA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                |     |          |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_02,<br>CellChDes_03, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_01, BcchFreqLst_Omit,<br>BcchFreqLst_48, BcchFreqLst_Omit,<br>C_noReestablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubC,<br>TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                                |     | 1.       |
| 4                           |       | +FullRateCh_A_1(C_Ass, TSPX_TmSlitDef,<br>TSPX_TscDef, ChMod_speech, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd,<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                |     |          |
| 5                           |       | +StartCellB(C_E_suitable, C_arfcnB,<br>C_arfcnBd, C_Immass, TCV_slot, TCV_tsc,<br>TimingAdv(TSPX_k1), 5, 1, 0, 0, C_BABR_0,<br>C_cch_1Comb, C_BPM_3, C_T3212_0,<br>C_MCC_1, C_PLMN_1, C_LAC_1,<br>CellChDes_04, CellChDes_03,<br>BcchFreqLst_01, BcchFreqLst_48,<br>C_noReestablishment, C_BCC, C_NCC)                                                                                                                                                                                                                                                                                                         |                                                |     | 2.       |
| 6                           |       | +FullRateCh_B_1(C_Synho,<br>TSPX_TmSlitC, TSPX_TscC,<br>ChMod_speech,<br>FreqTCH(TSPX_TCHcarrierB),<br>FreqTCH(TSPX_TCHcarrierBd),<br>TimingAdv(TSPX_k1), C_BABR_0,<br>C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                |     |          |
| 7                           |       | (TCV_chTch := C_FACCHF_A_1,<br>TCV_chTch1 := C_SACCHF_B_1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                |     |          |
| 8                           |       | +PreEnterCCstateU10_r01(TimingAdv(<br>30), TSPX_SDCCH4SubC,<br>TSPX_MSTxpwrMax,<br>TSPX_MSTxpwrMax)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                |     | 3.       |
| 9                           |       | (TCV_Fn1 :=<br>OM_ComingFn(TCV_chTch),<br>TCV_Null :=<br>OM_SendNextOn(TCV_chTch,<br>TCV_Fn1))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                |     |          |
| 10                          | body  | +local_HoCMD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                |     | 4.       |
| 11                          |       | +local_continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |     |          |
|                             |       | <b>local_continue</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                |     |          |
| 12                          |       | (TCV_Cnt := 0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                |     |          |
| 13                          |       | REPEAT local_hoacc(TCV_chTch1) UNTIL<br>[TCV_Cnt = 4]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                |     |          |
| 14                          |       | (TCV_L1Head := OM_GetL1Hd(TCV_chTch1))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                |     |          |
| 15                          |       | L?DL_EstIn CANCEL T_dly1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | DLEstInd(TCV_chTch<br>1)                       |     |          |
| 16                          |       | L?DL_DatInHoCom(TCV_Fn :=<br>DL_DatInHoCom.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | HndOvCmpRcv(TCV_<br>chTch1,<br>HandOverCmp_01) |     |          |
| 17                          |       | [TCV_L1Head.ta = '1'B]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                | (P) | 5.       |
| 18                          |       | +localtree_hotime(650)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                |     |          |

|                                                                            |                                                      |                                                                                                                                                                                                                                                    |     |    |
|----------------------------------------------------------------------------|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 19                                                                         | +PostMainLinkRel(TCV_chTch1)                         |                                                                                                                                                                                                                                                    |     |    |
| 20                                                                         | [TCV_L1Head.ta <> '1'B]                              |                                                                                                                                                                                                                                                    | (F) |    |
| 21                                                                         | +PostMainLinkRel(TCV_chTch1)                         |                                                                                                                                                                                                                                                    |     |    |
|                                                                            | <b>local_hoacc(ch:LOGICCH)</b>                       |                                                                                                                                                                                                                                                    |     |    |
| 22                                                                         | (TCV_L1Head := OM_GetHoaccPara(ch))                  |                                                                                                                                                                                                                                                    |     |    |
| 23                                                                         | L?DL_RaInHoacc (TCV_Hrf :=<br>DL_RaInHoacc.msg.horf) | HndOvAccRcv(ch,<br>HandOverAcc_01)                                                                                                                                                                                                                 |     |    |
| 24                                                                         | [TCV_Hrf <> TSPX_HoRefD]                             |                                                                                                                                                                                                                                                    | (F) |    |
| 25                                                                         | [TCV_Hrf = TSPX_HoRefD]                              |                                                                                                                                                                                                                                                    | (P) | 6. |
| 26                                                                         | [TCV_L1Head.ta = '000000'B]                          |                                                                                                                                                                                                                                                    | (P) |    |
| 27                                                                         | [TCV_L1Head.mspwrlvl = '01000'B]                     |                                                                                                                                                                                                                                                    | (P) | 7. |
| 28                                                                         | (TCV_Cnt := TCV_Cnt + 1)                             |                                                                                                                                                                                                                                                    |     |    |
| 29                                                                         | [TCV_L1Head.mspwrlvl <> '01000'B]                    |                                                                                                                                                                                                                                                    | (F) |    |
| 30                                                                         | [TCV_L1Head.ta <> '000000'B]                         |                                                                                                                                                                                                                                                    | (F) |    |
|                                                                            | <b>local_HoCMD</b>                                   |                                                                                                                                                                                                                                                    |     |    |
| 31                                                                         | (TCV_Tchtype := '00001'B)                            |                                                                                                                                                                                                                                                    |     |    |
| 32                                                                         | [TSPC_PGSM OR TSPC_EGSM]                             |                                                                                                                                                                                                                                                    |     |    |
| 33                                                                         | LIDL_DatRqHoCmd                                      | HndOvSnd(TCV_chT<br>ch,<br>HandOverCmd(TCV_<br>Tchtype,<br>TSPX_TmSlcC,<br>TSPX_TscC,<br>C_arfcnB,<br>TSPX_TCHcarrierB,<br>TSPX_HoRefD, 8,<br>C_not_report_otd,<br>C_pre_synchronized,<br>RelTmdDif_omit,<br>TimingAdv_omit,<br>CphMod_02iei))     |     |    |
| 34                                                                         | [TSPC_DCS]                                           |                                                                                                                                                                                                                                                    |     |    |
| 35                                                                         | LIDL_DatRqHoCmd                                      | HndOvSnd(TCV_chT<br>ch,<br>HandOverCmd(TCV_<br>Tchtype,<br>TSPX_TmSlcC,<br>TSPX_TscC,<br>C_arfcnAd_1,<br>TSPX_TCHcarrierBd,<br>TSPX_HoRefD, 8,<br>C_not_report_otd,<br>C_pre_synchronised,<br>RelTmdDif_omit,<br>TimingAdv_omit,<br>CphMod_02iei)) |     |    |
|                                                                            | <b>localtree_hotime(time:INTEGER)</b>                |                                                                                                                                                                                                                                                    |     |    |
| 36                                                                         | +FnArith(TCV_Fn1, TCV_Fn)                            |                                                                                                                                                                                                                                                    |     |    |
| 37                                                                         | [TCV_Time > time]                                    |                                                                                                                                                                                                                                                    | (F) |    |
| 38                                                                         | +ChanRel(TCV_chTch1)                                 |                                                                                                                                                                                                                                                    |     |    |
| 39                                                                         | [TCV_Time <= time]                                   |                                                                                                                                                                                                                                                    | (P) |    |
| <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. The received timing advance is 1 bit period, pass.                      |                                                      |                                                                                                                                                                                                                                                    |     |    |
| 6. The received handover reference is correct.                             |                                                      |                                                                                                                                                                                                                                                    |     |    |
| 7. The power level is correct.                                             |                                                      |                                                                                                                                                                                                                                                    |     |    |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                               |   |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_6_5_5_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                               |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                               |   |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                          |                                                                                                                                               |   |          |
| <b>Default:</b>             |       | OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                               |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CRef                                                                                                                                          | V | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                               |   |          |
| 2                           |       | +BasicServiceMO(TSPX_MOBscSvcJ,<br>TSPX_MOChRateJ)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                               |   |          |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immasc, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_7, C_NECI_0, C_ATT_0,<br>TimingAdv(TSPX_y), C_BABR_0, C_cch_1Comb,<br>C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1,<br>C_PLMN_1, C_LAC_1, CellOpt_01,<br>CellChDes_02, CellChDes_03,<br>C_CellReselectHys12, C_MaxPwrLvlG,<br>C_MaxPwrLvlD, BcchFreqLst_01,<br>BcchFreqLst_Omit, BcchFreqLst_48,<br>BcchFreqLst_Omit, C_noRestablishment,<br>C_BCC, C_NCC, C_Start_Tmsi,<br>TSPX_SDCCH4SubB, TSPX_CKSNDf,<br>TSPX_RANDDef, C_arfcnA, C_arfcnAd,<br>TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                                                                                                                               |   | 1.       |
| 4                           |       | +FullRateCh_A_1(C_Ass, TSPX_TmSltDef,<br>TSPX_TscDef, ChMod_speech, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd,<br>TimingAdv(TSPX_y), C_BABR_0,<br>C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                               |   |          |
| 5                           |       | +StartCellB_ho(C_E_suitable, C_arfcnB,<br>C_arfcnBd, C_Immasc, TCV_slot, TCV_tsc,<br>TimingAdv(TSPX_y +2*TSPX_k), 5, 1, 0, 0,<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellChDes_04, CellChDes_03,<br>BcchFreqLst_01, BcchFreqLst_48,<br>C_noRestablishment, C_BCC, C_NCC,<br>TSPX_k, 0)                                                                                                                                                                                                                                                                                      |                                                                                                                                               |   | 2.       |
| 6                           |       | +FullRateCh_B_1(C_Synho,<br>TSPX_TmSltC, TSPX_TscC,<br>ChMod_speech,<br>FreqTCH(TSPX_TCHcarrierB),<br>FreqTCH(TSPX_TCHcarrierBd),<br>TimingAdv(30 +TSPX_k), C_BABR_0,<br>C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                               |   |          |
| 7                           |       | (TCV_chTch := C_FACCHF_A_1,<br>TCV_chTch1 := C_SACCHF_B_1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                               |   |          |
| 8                           | body  | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                               |   |          |
| 9                           |       | L?DL_RaInChRq (TCV_Rr :=<br>DL_RaInChRq.msg.ecau_rrf,<br>TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ChReq(ChRequest_0<br>2)                                                                                                                       |   |          |
| 10                          |       | LIDL_UdatRqImmasc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                               |   | 3.       |
| 11                          |       | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubB<br>, TCV_slot, TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(TSPX_y))) |   |          |
| 12                          |       | (TCV_Null :=<br>OM_NoL2Ack(C_I, 2, TCV_ch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CMSerReq(CMServic<br>eReq_01)                                                                                                                 |   |          |
| 13                          |       | +Cipherring_on(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                               |   |          |
| 14                          |       | +localtree1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                               |   |          |
|                             |       | <b>localtree1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                               |   |          |
| 15                          |       | L?DL_DatInSetup (TCV_Mt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SetupRcv(SetupInd_0                                                                                                                           |   |          |

|    |                                                                                              |                                                                                                                                                                                                   |     |
|----|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 16 | :=DL_DatInSetup.msg.mt)                                                                      | 1)                                                                                                                                                                                                |     |
| 17 | (TCV_Fn1 := OM_ComingFn(TCV_ch), TCV_Null := OM_SendNextOn(TCV_ch, TCV_Fn1))                 |                                                                                                                                                                                                   |     |
| 18 | +local_hoCMD                                                                                 |                                                                                                                                                                                                   |     |
| 19 | +Varinit_fixB                                                                                |                                                                                                                                                                                                   |     |
| 20 | +localtree2(TCV_ch)                                                                          | DLEstInd(TCV_chTch 1)                                                                                                                                                                             |     |
| 21 | L?DL_Estln                                                                                   |                                                                                                                                                                                                   |     |
| 22 | (TCV_L1Head := OM_GetL1Hd(TCV_chTch1))                                                       |                                                                                                                                                                                                   |     |
| 23 | L?DL_DatInHoCom(TCV_Fn := DL_DatInHoCom.fn)                                                  | HndOvCmpRcv(TCV_ch, HandOverCmp_03)                                                                                                                                                               | (P) |
| 24 | [TCV_L1Head.ta <> '0001001'B]                                                                |                                                                                                                                                                                                   | (F) |
| 25 | +PostMainLinkRel(TCV_ch)                                                                     |                                                                                                                                                                                                   |     |
| 26 | [TCV_L1Head.ta = '0001001'B]                                                                 |                                                                                                                                                                                                   | (P) |
| 27 | +localtree_hotime(650)                                                                       |                                                                                                                                                                                                   |     |
| 28 | L?DL_DatInSetup (TCV_Mt1 := DL_DatInSetup.msg.mt)                                            | SetupRcv(SetupInd_0 1)                                                                                                                                                                            |     |
| 29 | [TCV_Mt1 <> TCV_Mt]                                                                          |                                                                                                                                                                                                   | (F) |
| 30 | +PostMainLinkRel(TCV_chTch1)                                                                 |                                                                                                                                                                                                   |     |
| 31 | [TCV_Mt1 = TCV_Mt]                                                                           |                                                                                                                                                                                                   | (P) |
| 32 | +PostMainLinkRel(TCV_ch)                                                                     |                                                                                                                                                                                                   |     |
| 33 | <b>localtree2(ch:LOGICCH)</b><br>(TCV_Cnt := 0)<br>REPEAT localtree3(ch) UNTIL [TCV_Cnt = 4] |                                                                                                                                                                                                   |     |
| 34 | <b>localtree3(ch:LOGICCH)</b><br>(TCV_L1Head := OM_GetHoaccPara(ch))                         |                                                                                                                                                                                                   |     |
| 35 | L?DL_RaInHoacc (TCV_Hrf := DL_RaInHoacc.msg.horf)                                            | HndOvAccRcv(ch, HandOverAcc_01)                                                                                                                                                                   |     |
| 36 | [TCV_Hrf <> TSPX_HoRefF]                                                                     |                                                                                                                                                                                                   | F   |
| 37 | [TCV_Hrf = TSPX_HoRefF]                                                                      |                                                                                                                                                                                                   | (P) |
| 38 | (TCV_Cnt := TCV_Cnt + 1)                                                                     |                                                                                                                                                                                                   |     |
| 39 | <b>local_hoCMD</b><br>(TCV_Tchtype := '00001'B)                                              |                                                                                                                                                                                                   |     |
| 40 | [TSPC_PGSM OR TSPC_EGSM]                                                                     |                                                                                                                                                                                                   |     |
| 41 | L!DL_DatRqHoCmd                                                                              | HndOvSnd(TCV_ch, HandOverCmd(TCV_Tchtype, TSPX_TmSlTc, TSPX_TscC, C_arfcnB, TSPX_TCHcarrierB, TSPX_HoRefF, 7, C_report_otd, C_pre_synchronised, RelTmdDif_omit, TimingAdv_iei(9), CphMod_omit))   |     |
| 42 | [TSPC_DCS]                                                                                   |                                                                                                                                                                                                   |     |
| 43 | L!DL_DatRqHoCmd                                                                              | HndOvSnd(TCV_ch, HandOverCmd(TCV_Tchtype, TSPX_TmSlTc, TSPX_TscC, C_arfcnBd, TSPX_TCHcarrierBd, TSPX_HoRefF, 7, C_report_otd, C_pre_synchronised, RelTmdDif_omit, TimingAdv_iei(9), CphMod_omit)) |     |
| 44 | <b>localtree_hotime(time:INTEGER)</b><br>+FnArith(TCV_Fn1, TCV_Fn)                           |                                                                                                                                                                                                   |     |

|                                                                                                                                                                                                                      |                    |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----|
| 45                                                                                                                                                                                                                   | [TCV_Time > time]  | (F) |
| 46                                                                                                                                                                                                                   | +ChanRel(TCV_ch)   |     |
| 47                                                                                                                                                                                                                   | [TCV_Time <= time] | (P) |
| <b>Detailed Comments:</b><br>1. Cell A with BCCH, CCCH, SDCCH4 and a traffic channel.<br>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 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                |     |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_6_5_6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                |     |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                |                                                |     |          |
| <b>Default:</b>             |       | OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CRef                                           | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                |     |          |
| 2                           |       | +BasicServiceMT(TSPX_MTBscSvcC,<br>TSPX_MTChRateC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                |     |          |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_7, C_NECI_0, C_ATT_0,<br>TimingAdv(TSPX_y2), C_BABR_0,<br>C_cch_1Comb, C_BPM_3, C_T3212_0,<br>C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1,<br>CellOpt_01, CellChDes_02, CellChDes_03,<br>C_CellReselectHys12, C_MaxPwrLvlG,<br>C_MaxPwrLvlD, BcchFreqLst_01,<br>BcchFreqLst_Omit, BcchFreqLst_48,<br>BcchFreqLst_Omit, C_noRestablishment,<br>C_BCC, C_NCC, C_Start_Tmsi,<br>TSPX_SDCCH4SubDef, TSPX_CKSNDDef,<br>TSPX_RANDDef, C_arfcnA, C_arfcnAd,<br>TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                                |     | 1.       |
| 4                           |       | +FullRateCh_A_1(C_Ass, TSPX_TmSlitDef,<br>TSPX_TscDef, ChMod_speech, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd,<br>TimingAdv(TSPX_y2), C_BABR_0,<br>C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |     |          |
| 5                           |       | +StartCellB(C_E_suitable, C_arfcnB,<br>C_arfcnBd, C_Immass, TCV_slot, TCV_tsc,<br>TimingAdv(TSPX_k2), C_TxInt_5, C_Max_1,<br>C_NECI_0, C_ATT_0, C_BABR_0,<br>C_cch_1Comb, C_BPM_3, C_T3212_0,<br>C_MCC_1, C_PLMN_1, C_LAC_1,<br>CellChDes_04, CellChDes_03,<br>BcchFreqLst_01, BcchFreqLst_48,<br>C_noRestablishment, C_BCC, C_NCC)                                                                                                                                                                                                                                                                                       |                                                |     | 2.       |
| 6                           |       | +FullRateCh_B_1(C_Ass, TSPX_TmSlitC,<br>TSPX_TscC, ChMod_speech,<br>FreqTCH(TSPX_TCHcarrierB),<br>FreqTCH(TSPX_TCHcarrierBd),<br>TimingAdv(TSPX_k2), C_BABR_0,<br>C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                |     |          |
| 7                           |       | (TCV_chTch := C_FACCHF_A_1,<br>TCV_chTch1 := C_SACCHF_B_1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |     |          |
| 8                           |       | +PreEnterCCstateU10_r01(TimingAdv(<br>TSPX_y2), TSPX_SDCCH4SubDef, 0,<br>3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                |     | 3.       |
| 9                           |       | +local_HoCMD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                |     | 4.       |
| 10                          |       | +localtree(TCV_chTch1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                |     |          |
| 11                          |       | +localtree1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                |     |          |
| 12                          |       | <b>localtree1</b><br>(TCV_L1Head := OM_GetL1Hd(TCV_chTch1))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                |     |          |
| 13                          |       | L?DL_EstIn CANCEL T_dly1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | DLEstInd(TCV_chTch<br>1)                       |     |          |
| 14                          |       | L?DL_DatInHoCom (TCV_Td :=<br>DL_DatInHoCom.msg.motdif.value)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | HndOvCmpRcv(TCV_<br>chTch1,<br>HandOverCmp_02) |     | 5.       |
| 15                          |       | [TCV_L1Head.ta = INT_TO_BIT((TSPX_y2 -<br>10), 6)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                | (P) | 6.       |
| 16                          |       | +PostMainLinkRel(TCV_chTch1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                |     |          |
| 17                          |       | [TCV_L1Head.ta <> INT_TO_BIT((TSPX_y2 -<br>10), 6)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                | (F) |          |
| 18                          |       | +PostMainLinkRel(TCV_chTch1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                |     |          |
| 19                          |       | ?TIMEOUT T_dly1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                | F   |          |

|    |                                                                      |                                                                                                                                                                                                                                                  |  |     |
|----|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----|
| 20 | <b>localtree(ch:LOGICCH)</b><br>(TCV_Cnt := 0)                       |                                                                                                                                                                                                                                                  |  |     |
| 21 | REPEAT localtree2(ch) UNTIL [TCV_Cnt = 4]                            |                                                                                                                                                                                                                                                  |  |     |
| 22 | <b>localtree2(ch:LOGICCH)</b><br>(TCV_L1Head := OM_GetHoaccPara(ch)) |                                                                                                                                                                                                                                                  |  |     |
| 23 | L?DL_RaInHoacc (TCV_Hrf :=<br>DL_RaInHoacc.msg.horf)                 | HndOvAccRcv(ch,<br>HandOverAcc_01)                                                                                                                                                                                                               |  |     |
| 24 | [TCV_Hrf <> TSPX_HoRefH]                                             |                                                                                                                                                                                                                                                  |  | F   |
| 25 | [TCV_Hrf = TSPX_HoRefH]                                              |                                                                                                                                                                                                                                                  |  | (P) |
| 26 | [TCV_L1Head.ta = '000000'B]                                          |                                                                                                                                                                                                                                                  |  | (P) |
| 27 | [TCV_L1Head.mspwrlvl = '01010'B]                                     |                                                                                                                                                                                                                                                  |  | (P) |
| 28 | (TCV_Cnt := TCV_Cnt + 1)                                             |                                                                                                                                                                                                                                                  |  |     |
| 29 | [TCV_L1Head.mspwrlvl <> '01010'B]                                    |                                                                                                                                                                                                                                                  |  | F   |
| 30 | [TCV_L1Head.ta <> '000000'B]                                         |                                                                                                                                                                                                                                                  |  | F   |
| 31 | <b>local_HoCMD</b><br>(TCV_Tchtype := '00001'B)                      |                                                                                                                                                                                                                                                  |  |     |
| 32 | [TSPC_PGSM OR TSPC_EGSM]                                             |                                                                                                                                                                                                                                                  |  |     |
| 33 | LIDL_DatRqHoCmd START T_dly1(650)                                    | HndOvSnd(TCV_chT<br>ch,<br>HandOverCmd(TCV_<br>Tchtype,<br>TSPX_TmSlitC,<br>TSPX_TscC,<br>C_arfcnB,<br>TSPX_TCHcarrierB,<br>TSPX_HoRefH, 10,<br>C_report_otd,<br>C_pseudo_synchronis<br>ed, RelTmdDif_01,<br>TimingAdv_omit,<br>CphMod_02iei))   |  |     |
| 34 | [TSPC_DCS]                                                           |                                                                                                                                                                                                                                                  |  |     |
| 35 | LIDL_DatRqHoCmd START T_dly1(650)                                    | HndOvSnd(TCV_chT<br>ch,<br>HandOverCmd(TCV_<br>Tchtype,<br>TSPX_TmSlitC,<br>TSPX_TscC,<br>C_arfcnBd,<br>TSPX_TCHcarrierBd,<br>TSPX_HoRefH, 10,<br>C_report_otd,<br>C_pseudo_synchronis<br>ed, RelTmdDif_01,<br>TimingAdv_omit,<br>CphMod_02iei)) |  |     |

**Detailed Comments:**

1. Cell A with BCCH, CCCH, SDCCH4 and a traffic channel.
2. Cell B with BCCH, CCCH, SDCCH4 and a traffic channel.
3. In cell A the timing advance = TSPX\_y2.
4. pseudo-synch, rot = 1, nc1, = 0, real time difference = 2\*TSPX\_k2 + 10., handover reference = 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 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                |     |          |
|-----------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_6_5_7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                |     |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                |     |          |
| <b>Default:</b>             |       | OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CRef                                           | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                |     |          |
| 2                           |       | +BasicServiceMT(TSPX_MTBscSvcD,<br>TSPX_MTChRateD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                |     |          |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_7, C_NECI_0, C_ATT_0,<br>TimingAdv(TSPX_y3), C_BABR_0,<br>C_cch_1Comb, C_BPM_3, C_T3212_0,<br>C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1,<br>CellOpt_01, CellChDes_02, CellChDes_03,<br>C_CellReselectHys12, C_MaxPwrLvIG,<br>C_MaxPwrLvID, BcchFreqLst_01,<br>BcchFreqLst_Omit, BcchFreqLst_48,<br>BcchFreqLst_Omit, C_noRestablishment,<br>C_BCC, C_NCC, C_Start_Tmsi,<br>TSPX_SDCCH4SubDef, TSPX_CKSNDf,<br>TSPX_RANDDef, C_arfcnA, C_arfcnAd,<br>TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                                |     | 1.       |
| 4                           |       | +FullRateCh_A_1(C_Ass, TSPX_TmSlitDef,<br>TSPX_TscDef, ChMod_speech, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd,<br>TimingAdv(TSPX_y3), C_BABR_0,<br>C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                |     |          |
| 5                           |       | +StartCellB(C_E_suitable, C_arfcnB,<br>C_arfcnBd, C_Immass, TCV_slot, TCV_tsc,<br>TimingAdv(TSPX_k3), C_TxInt_5, C_Max_1,<br>C_NECI_0, C_ATT_0, C_BABR_0,<br>C_cch_1Comb, C_BPM_3, C_T3212_0,<br>C_MCC_9, C_PLMN_2, C_LAC_spe,<br>CellChDes_04, CellChDes_03,<br>BcchFreqLst_01, BcchFreqLst_48,<br>C_noRestablishment, C_BCC, C_NCC)                                                                                                                                                                                                                                                                                   |                                                |     | 2.       |
| 6                           |       | +FullRateCh_B_1(C_Ass, TSPX_TmSlitC,<br>TSPX_TscC, ChMod_speech,<br>FreqTCH(TSPX_TCHcarrierB),<br>FreqTCH(TSPX_TCHcarrierBd),<br>TimingAdv(TSPX_k3), C_BABR_0,<br>C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                |     |          |
| 7                           |       | (TCV_chTch := C_FACCHF_A_1,<br>TCV_chTch1 := C_SACCHF_B_1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                |     |          |
| 8                           |       | +PreEnterCCstateU10_r01(TimingAdv(<br>TSPX_y3), TSPX_SDCCH4SubDef, 0,<br>3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                |     | 3.       |
| 9                           | body  | +local_handoverCMD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                |     | 4.       |
| 10                          |       | +localtree(TCV_chTch1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                |     |          |
| 11                          |       | +localtree1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                |     |          |
| 12                          |       | <b>localtree1</b><br>L!DL_DatRqPhyinfo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PhyInfo_01(TCV_chT<br>ch1, TimingAdv(20))      |     |          |
| 13                          |       | (TCV_L1Head := OM_GetL1Hd(TCV_chTch1))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                |     |          |
| 14                          |       | L?DL_EstIn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DLEstInd(TCV_chTch<br>1)                       |     |          |
| 15                          |       | L?DL_DatInHoCom (TCV_Td :=<br>DL_DatInHoCom.msg.motdif.value)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | HndOvCmpRcv(TCV_<br>chTch1,<br>HandOverCmp_04) |     |          |
| 16                          |       | [TCV_L1Head.ta = '010100'B]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                |     |          |
| 17                          |       | +PostMainLinkRel(TCV_chTch1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                |     |          |
| 18                          |       | [TCV_L1Head.ta <> '010100'B]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                |     |          |
| 19                          |       | +PostMainLinkRel(TCV_chTch1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                | (F) |          |
| 20                          |       | <b>localtree(ch:LOGICCH)</b><br>L?DL_RaInHoacc (TCV_Hrf :=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | HndOvAccRcv(ch,                                |     |          |

|                          |                                                      |                                                                                                                                                                                                                                                 |   |
|--------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 21                       | DL_RaInHoacc.msg.horf)                               | HandOverAcc_01)                                                                                                                                                                                                                                 |   |
| 22                       | [TCV_Hrf <> TSPX_HoRefB]                             |                                                                                                                                                                                                                                                 | F |
| 23                       | [TCV_Hrf = TSPX_HoRefB]                              |                                                                                                                                                                                                                                                 |   |
| 24                       | L?DL_RaInHoacc (TCV_Hrf :=<br>DL_RaInHoacc.msg.horf) | HndOvAccRcv(ch,<br>HandOverAcc_01)                                                                                                                                                                                                              |   |
| 25                       | [TCV_Hrf <> TSPX_HoRefB]                             |                                                                                                                                                                                                                                                 | F |
| 25                       | [TCV_Hrf = TSPX_HoRefB]                              |                                                                                                                                                                                                                                                 |   |
| <b>local_handoverCMD</b> |                                                      |                                                                                                                                                                                                                                                 |   |
| 26                       | (TCV_Tchtype := '00001'B)                            |                                                                                                                                                                                                                                                 |   |
| 27                       | [TSPC_PGSM OR TSPC_EGSM]                             |                                                                                                                                                                                                                                                 |   |
| 28                       | LIDL_DatRqHoCmd START T_dly1(650)                    | HndOvSnd(TCV_chT<br>ch,<br>HandOverCmd(TCV_<br>Tchtype,<br>TSPX_TmSlitC,<br>TSPX_TscB,<br>C_arfcnB,<br>TSPX_TCHcarrierB,<br>TSPX_HoRefB, 8,<br>C_report_otd,<br>C_non_synchronized,<br>RelTmdDif_omit,<br>TimingAdv_omit,<br>CphMod_02iei))     |   |
| 29                       | [TSPC_DCS]                                           |                                                                                                                                                                                                                                                 |   |
| 30                       | LIDL_DatRqHoCmd START T_dly1(650)                    | HndOvSnd(TCV_chT<br>ch,<br>HandOverCmd(TCV_<br>Tchtype,<br>TSPX_TmSlitC,<br>TSPX_TscB,<br>C_arfcnAd_1,<br>TSPX_TCHcarrierBd,<br>TSPX_HoRefB, 8,<br>C_report_otd,<br>C_non_synchronised,<br>RelTmdDif_omit,<br>TimingAdv_omit,<br>CphMod_02iei)) |   |

**Detailed Comments:**

1. Cell A with BCCH, CCCH, SDCCH4 and a traffic channel.
2. Cell B with BCCH, CCCH, SDCCH4 and a traffic channel.
3. In cell A the timing advance = TSPX\_y3.
4. non-synch, rot = 1, nci = 0, handover reference = TSPX\_HoRefB.

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                          |     |          |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_6_5_8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                          |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                          |     |          |
| <b>Purpose:</b>             |       | To verify the function of timer T3124 and the contents in the message HANDOVER FAILURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                          |     |          |
| <b>Default:</b>             |       | OtherEventsFail_01, RcvHdOvAcc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CRef                                     | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                          |     |          |
| 2                           |       | +BasicServiceMT(TSPX_MTBscSvcE,<br>TSPX_MTChRateE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                          |     |          |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immss, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(30),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_02,<br>CellChDes_03, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_01, BcchFreqLst_Omit,<br>BcchFreqLst_48, BcchFreqLst_Omit,<br>C_noRestablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubC,<br>TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                          |     |          |
| 4                           |       | +FullRateCh_A_1(C_Ass, TSPX_TmSlitDef,<br>TSPX_TscDef, ChMod_speech, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd,<br>TimingAdv(30), C_BABR_0, C_cch_1Comb,<br>C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                        |                                          |     |          |
| 5                           |       | +StartCellB(C_E_suitable, C_arfcnB,<br>C_arfcnBd, C_Immss, TCV_slot, TCV_tsc,<br>TimingAdv(30), 5, 1, 0, 0, C_BABR_0,<br>C_cch_1Comb, C_BPM_3, C_T3212_0,<br>C_MCC_1, C_PLMN_1, C_LAC_1,<br>CellChDes_04, CellChDes_03,<br>BcchFreqLst_01, BcchFreqLst_48,<br>C_noRestablishment, C_BCC, C_NCC)                                                                                                                                                                                                                                                                                                              |                                          |     | 2.       |
| 6                           |       | +FullRateCh_B_1(C_Ass, TSPX_TmSlitC,<br>TSPX_TscC, ChMod_speech,<br>FreqTCH(TSPX_TCHcarrierB),<br>FreqTCH(TSPX_TCHcarrierBd),<br>TimingAdv(30), C_BABR_0,<br>C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                           |                                          |     |          |
| 7                           |       | (TCV_chTch := C_FACCHF_A_1,<br>TCV_chTch1 := C_SACCHF_B_1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                          |     |          |
| 8                           |       | +PreEnterCCstateU10_r01(TimingAdv(<br>30), TSPX_SDCCH4SubC,<br>TSPX_MSTxpwrMax,<br>TSPX_MSTxpwrMax)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                          |     | 3.       |
| 9                           |       | (TCV_L1Head0 :=<br>OM_GetL1Hd(TCV_chTch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                          |     |          |
| 10                          | body  | +gsmOrDcs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                          |     | 4.       |
| 11                          |       | +localtree(TCV_chTch1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                          |     |          |
| 12                          |       | L?DL_EstIn CANCEL T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | DLEstInd(TCV_chTch<br>)                  |     |          |
| 13                          |       | (TCV_L1Head :=<br>OM_GetL1Hd(TCV_chTch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          |     |          |
| 14                          |       | L?DL_DatInHofl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | HndOvFIRcv(TCV_ch<br>Tch, HandOvFail_02) |     | 5.       |
| 15                          |       | [TCV_L1Head.mspwrlvl =<br>TCV_L1Head0.mspwrlvl]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                          | (P) | 6.       |
| 16                          |       | +PostMainLinkRel(TCV<br>_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                          |     |          |
| 17                          |       | [TCV_L1Head.mspwrlvl<br><><br>TCV_L1Head0.mspwrlvl]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                          | (F) |          |
| 18                          |       | +PostMainLinkRel(TCV<br>_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                          |     |          |
| 19                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          | F   |          |
|                             |       | <b>localtree(ch:LOGICCH)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                          |     |          |

|                           |                                                        |                                                                                                                                                                                                                                                                                                                                                                                                               |     |            |
|---------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------|
| 20                        | (TCV_Cnt := 0)                                         |                                                                                                                                                                                                                                                                                                                                                                                                               |     |            |
| 21                        | REPEAT localtree1(ch) UNTIL [TCV_Cnt = 3]              |                                                                                                                                                                                                                                                                                                                                                                                                               |     |            |
|                           | <b>localtree1(ch:LOGICCH)</b>                          |                                                                                                                                                                                                                                                                                                                                                                                                               |     |            |
| 22                        | (TCV_L1Head := OM_GetHoaccPara(ch))                    |                                                                                                                                                                                                                                                                                                                                                                                                               |     |            |
| 23                        | L?DL_RacInHoacc (TCV_Hrf :=<br>DL_RacInHoacc.msg.horf) | HndOvAccRcv(ch,<br>HandOverAcc_01)                                                                                                                                                                                                                                                                                                                                                                            |     |            |
| 24                        | [TCV_Hrf <> TSPX_HoRefC]                               |                                                                                                                                                                                                                                                                                                                                                                                                               | F   |            |
| 25                        | [TCV_Hrf = TSPX_HoRefC]                                |                                                                                                                                                                                                                                                                                                                                                                                                               | (P) |            |
| 26                        | [TCV_L1Head.mspwrlvl = '01000'B]                       |                                                                                                                                                                                                                                                                                                                                                                                                               | (P) | pwrlvl = 8 |
| 27                        | (TCV_Cnt := TCV_Cnt + 1)                               |                                                                                                                                                                                                                                                                                                                                                                                                               |     |            |
| 28                        | [TCV_L1Head.mspwrlvl <> '01000'B]                      |                                                                                                                                                                                                                                                                                                                                                                                                               | F   |            |
|                           | <b>gsmOrDcs</b>                                        |                                                                                                                                                                                                                                                                                                                                                                                                               |     |            |
| 29                        | (TCV_Tchtype := '00001'B)                              |                                                                                                                                                                                                                                                                                                                                                                                                               |     |            |
| 30                        | [TSPC_PGSM OR TSPC_EGSM]                               |                                                                                                                                                                                                                                                                                                                                                                                                               |     |            |
| 31                        | LIDL_DatRqHoCmd START T_dly(3000)                      | HndOvSnd(TCV_chT<br>ch,<br>HandOverCmd(TCV_<br>Tchtype,<br>TSPX_TmSlitC,<br>TSPX_TscB,<br>C_arfcnB,<br>TSPX_TCHcarrierB,<br>TSPX_HoRefC, 8,<br>C_report_otd,<br>C_non_synchronised,<br>RelTmdDif_omit,<br>TimingAdv_omit,<br>CphMod_02iei))                                                                                                                                                                   |     |            |
| 32                        | [TSPC_DCS]                                             |                                                                                                                                                                                                                                                                                                                                                                                                               |     |            |
| 33                        | LIDL_DatRqHoCmd START T_dly(3000)                      | HndOvSnd(TCV_chT<br>ch,<br>HandOverCmd(TCV_<br>Tchtype,<br>TSPX_TmSlitC,<br>TSPX_TscB,<br>C_arfcnAd_1,<br>TSPX_TCHcarrierBd,<br>TSPX_HoRefC, 8,<br>C_report_otd,<br>C_non_synchronised,<br>RelTmdDif_omit,<br>TimingAdv_omit,<br>CphMod_02iei))                                                                                                                                                               |     |            |
| <b>Detailed Comments:</b> |                                                        | <ol style="list-style-type: none"> <li>1. To setup BCCH, CCCH, SDCCH4 and a full rate traffic channel for cell A.</li> <li>2. To setup BCCH, CCCH, SDCCH4 and a full rate traffic channel for cell B.</li> <li>3. To bring the MS into the U10 state.</li> <li>4. Non-synchronised handover, power level = 8.</li> <li>5. On old channel.</li> <li>6. Power level is the old one (TSPX_MSTxpwrMax)</li> </ol> |     |            |

| Test Case Dynamic Behaviour  |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                      |     |          |
|------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----|----------|
| <b>Test Case Name:</b>       |       | TC_26_6_5_9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                      |     |          |
| <b>Group:</b>                |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      |     |          |
| <b>Purpose:</b>              |       | To verify the function of timer T3124 and the contents in the message HANDOVER FAILURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      |     |          |
| <b>Default:</b>              |       | OtherEventsFail_01, RcvHdOvAcc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      |     |          |
| Nr                           | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                 | V   | 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_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_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, 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(30), C_BABR_0, C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                             |                                      |     |          |
| 5                            |       | +StartCellB(C_E_suitable, 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)                                                                                                                                                                                                                                                                |                                      |     |          |
| 6                            |       | +FullRateCh_B_1(C_Ass, TSPX_TmSlitC, TSPX_TscC, ChMod_speech, FreqTCH(TSPX_TCHcarrierB), FreqTCH(TSPX_TCHcarrierBd), TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                   |                                      |     |          |
| 7                            |       | (TCV_chTch := C_FACCHF_A_1, TCV_chTch1 := C_SACCHF_B_1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      |     |          |
| 8                            |       | +PreEnterCCstateU10_r01(TimingAdv(30), TSPX_SDCCH4SubDef, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax)                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                      |     | 3.       |
| 9                            |       | (TCV_L1Head0 := OM_GetL1Hd(TCV_chTch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      |     |          |
| 10                           | body  | +gsmOrDcs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                      |     | 4.       |
| 11                           |       | +localtree(TCV_chTch1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      |     |          |
| 12                           |       | L?DL_EstIn CANCEL T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DLEstInd(TCV_chTch)                  |     |          |
| 13                           |       | (TCV_L1Head := OM_GetL1Hd(TCV_chTch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                      |     |          |
| 14                           |       | L?DL_DatInHofl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | HndOvFIRcv(TCV_chTch, HandOvFail_02) |     | 5.       |
| 15                           |       | [TCV_L1Head.mspwrlvl = TCV_L1Head0.mspwrlvl]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                      | (P) | 6.       |
| 16                           |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                      |     |          |
| 17                           |       | [TCV_L1Head.mspwrlvl <> TCV_L1Head0.mspwrlvl]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                      | (F) |          |
| 18                           |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                      |     |          |
| 19                           |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                      | F   |          |
| <b>localtree(ch:LOGICCH)</b> |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                      |     |          |

|                           |                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                              |     |            |
|---------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------|
| 20                        | (TCV_Cnt := 0)                                       |                                                                                                                                                                                                                                                                                                                                                                                                                              |     |            |
| 21                        | REPEAT localtree1(ch) UNTIL [TCV_Cnt = 2]            |                                                                                                                                                                                                                                                                                                                                                                                                                              |     |            |
|                           | <b>localtree1(ch:LOGICCH)</b>                        |                                                                                                                                                                                                                                                                                                                                                                                                                              |     |            |
| 22                        | (TCV_L1Head := OM_GetHoaccPara(ch))                  |                                                                                                                                                                                                                                                                                                                                                                                                                              |     |            |
| 23                        | L?DL_RaInHoacc (TCV_Hrf :=<br>DL_RaInHoacc.msg.horf) | HndOvAccRcv(ch,<br>HandOverAcc_01)                                                                                                                                                                                                                                                                                                                                                                                           |     |            |
| 24                        | [TCV_Hrf <> TSPX_HoRefC]                             |                                                                                                                                                                                                                                                                                                                                                                                                                              | F   |            |
| 25                        | [TCV_Hrf = TSPX_HoRefC]                              |                                                                                                                                                                                                                                                                                                                                                                                                                              | (P) |            |
| 26                        | [TCV_L1Head.mspwrlvl = '01000'B]                     |                                                                                                                                                                                                                                                                                                                                                                                                                              | (P) | pwrlvl = 8 |
| 27                        | (TCV_Cnt := TCV_Cnt + 1)                             |                                                                                                                                                                                                                                                                                                                                                                                                                              |     |            |
| 28                        | [TCV_L1Head.mspwrlvl <> '01000'B]                    |                                                                                                                                                                                                                                                                                                                                                                                                                              | F   |            |
|                           | <b>gsmOrDcs</b>                                      |                                                                                                                                                                                                                                                                                                                                                                                                                              |     |            |
| 29                        | (TCV_Tchtype := '00001'B)                            |                                                                                                                                                                                                                                                                                                                                                                                                                              |     |            |
| 30                        | [TSPC_PGSM OR TSPC_EGSM]                             |                                                                                                                                                                                                                                                                                                                                                                                                                              |     |            |
| 31                        | LIDL_DatRqHoCmd START T_dly(3000)                    | HndOvSnd(TCV_chT<br>ch,<br>HandOverCmd(TCV_<br>Tchtype,<br>TSPX_TmSlitC,<br>TSPX_TscB,<br>C_arfcnB,<br>TSPX_TCHcarrierB,<br>TSPX_HoRefC, 8,<br>C_report_otd,<br>C_non_synchronised,<br>RelTmdDif_omit,<br>TimingAdv_omit,<br>CphMod_02iei))                                                                                                                                                                                  |     |            |
| 32                        | [TSPC_DCS]                                           |                                                                                                                                                                                                                                                                                                                                                                                                                              |     |            |
| 33                        | LIDL_DatRqHoCmd START T_dly(3000)                    | HndOvSnd(TCV_chT<br>ch,<br>HandOverCmd(TCV_<br>Tchtype,<br>TSPX_TmSlitC,<br>TSPX_TscB,<br>C_arfcnBd,<br>TSPX_TCHcarrierBd,<br>TSPX_HoRefC, 8,<br>C_report_otd,<br>C_non_synchronised,<br>RelTmdDif_omit,<br>TimingAdv_omit,<br>CphMod_02iei))                                                                                                                                                                                |     |            |
| <b>Detailed Comments:</b> |                                                      | <ol style="list-style-type: none"> <li>1. To setup BCCH, CCCH, SDCCH4 and a full rate traffic channel for cell A.</li> <li>2. To setup BCCH, CCCH, SDCCH4 and a receiving only full rate traffic channel for cell B.</li> <li>3. To bring the MS into the U10 state.</li> <li>4. Non-synchronised handover, power level = 8.</li> <li>5. On old channel.</li> <li>6. Power level is the old one (TSPX_MSTxpwrMax)</li> </ol> |     |            |



| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                        |      |   |                |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------------|
| <b>Test Case Name:</b>      |       | TC_26_6_6_1                                                                                                                                                                                                            |      |   |                |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                    |      |   |                |
| <b>Purpose:</b>             |       | 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.                                                   |      |   |                |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                        |      |   |                |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                  | CRef | V | Comments       |
| 1                           |       | START T_guard(700)                                                                                                                                                                                                     |      |   |                |
| 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]                                                                                                                                                                                                    |      |   |                |
|                             |       | <b>test1</b>                                                                                                                                                                                                           |      |   |                |
| 13                          |       | +sdcch8(Freq_rg18, Freq_rd18, 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.<br>R=1, K=1 |
|                             |       | <b>test2</b>                                                                                                                                                                                                           |      |   |                |
| 14                          |       | +sdcch8(Freq_rg19, Freq_rd19, 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       |
|                             |       | <b>test3</b>                                                                                                                                                                                                           |      |   |                |
| 15                          |       | +sdcch8(Freq_rg20, Freq_rd20, 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       |
|                             |       | <b>test4</b>                                                                                                                                                                                                           |      |   |                |
| 16                          |       | +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.<br>R=2, K=1 |
|                             |       | <b>test5</b>                                                                                                                                                                                                           |      |   |                |
| 17                          |       | +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       |
|                             |       | <b>test6</b>                                                                                                                                                                                                           |      |   |                |
| 18                          |       | +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       |
|                             |       | <b>test7</b>                                                                                                                                                                                                           |      |   |                |
| 19                          |       | +tchh(Freq_rg24, Freq_rd24, 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_TCHHSubA, '000011'B, '000000'B))          |      |   | 3.<br>R=3, K=1 |

|    |                                                                                                                                                                                                                                                                                                                                           |                                                                          |          |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------|
| 20 | <p><b>test8</b></p> <p>+tchh(Freq_rg25, Freq_rd25, 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))</p>                                                                                               |                                                                          | R=3, K=2 |
| 21 | <p><b>test9</b></p> <p>+tchh(Freq_rg26, Freq_rd26, 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))</p>                                                                                      |                                                                          | R=3, K=3 |
| 22 | <p><b>test(Ca2, Ca3:CCHD; Ma1, Ma2, Ma3: MA; Maio2, Maio3, tm:INTEGER; Chd: CHD)</b></p> <p>+ltree_immass(Ma1, Chd)</p>                                                                                                                                                                                                                   |                                                                          |          |
| 23 | <p>+ltree_freqRedef(Ca2, Ma2, Maio2, tm, Chd)</p>                                                                                                                                                                                                                                                                                         |                                                                          |          |
| 24 | <p>+ltree_freqRedef(Ca3, Ma3, Maio3, tm, Chd)</p>                                                                                                                                                                                                                                                                                         |                                                                          |          |
| 25 | <p>+ltree_chkAndrelease(Ca3, Ma3, tm, Chd)</p>                                                                                                                                                                                                                                                                                            |                                                                          |          |
| 26 | <p><b>ltree_freqRedef(ca: CCHD; ma: MA; maio, tm:INTEGER; chd: CHD)</b></p> <p>+Check(ca, ma, tm, chd)</p>                                                                                                                                                                                                                                |                                                                          |          |
| 27 | <p>[NOT TCV_Res]</p>                                                                                                                                                                                                                                                                                                                      |                                                                          |          |
| 28 | <p>[TCV_Res]</p>                                                                                                                                                                                                                                                                                                                          |                                                                          |          |
| 29 | <p>+ltree_fredf(ca, ma, maio, tm, chd)</p>                                                                                                                                                                                                                                                                                                |                                                                          |          |
| 30 | <p><b>ltree_chkAndrelease(ca: CCHD; ma: MA; tm:INTEGER; chd: CHD)</b></p> <p>+Check(ca, ma, tm, chd)</p>                                                                                                                                                                                                                                  |                                                                          |          |
| 31 | <p>[NOT TCV_Res]</p>                                                                                                                                                                                                                                                                                                                      |                                                                          |          |
| 32 | <p>(TCV_Null := OM_StopCell(C_CellA))</p>                                                                                                                                                                                                                                                                                                 |                                                                          |          |
| 33 | <p>[TCV_Res]</p>                                                                                                                                                                                                                                                                                                                          |                                                                          |          |
| 34 | <p>+PostMainLinkRel(TCV_chTch)</p>                                                                                                                                                                                                                                                                                                        |                                                                          |          |
| 35 | <p>(TCV_Null := OM_StopCell(C_CellA))</p>                                                                                                                                                                                                                                                                                                 |                                                                          |          |
| 36 | <p><b>Check(ca: CCHD; ma: MA; tm:INTEGER; chd: CHD)</b></p> <p>(TCV_Res := OM_FHCHK(TCV_sacchTch, ca, ma, chd, tm, TCV_Fn))</p>                                                                                                                                                                                                           |                                                                          |          |
| 37 | <p>[NOT TCV_Res]</p>                                                                                                                                                                                                                                                                                                                      |                                                                          | (F)      |
| 38 | <p>+PostMainLinkRel(TCV_chTch)</p>                                                                                                                                                                                                                                                                                                        |                                                                          |          |
| 39 | <p>[TCV_Res]</p>                                                                                                                                                                                                                                                                                                                          |                                                                          | (P)      |
| 40 | <p><b>ltree_fredf(cchd: CCHD; ma:MA; maio, tm:INTEGER; chd: CHD)</b></p> <p>(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))</p> |                                                                          |          |
| 41 | <p>!DL_DatRqFrqre</p>                                                                                                                                                                                                                                                                                                                     | <p>FrqRedfSnd(TCV_chTch, FreqRedef_01(TCV_chd1, ma, TCV_Strt, cchd))</p> |          |
| 42 | <p><b>sdccch8(FqParag, FqParad:FRQPARA; Tmslt:SN; Tsc:TSC; Cag2, Cag3, Cad2, Cad3:CCHD; Ma1, Ma2, Ma3: MA; Maio2, Maio3, tm:INTEGER; Chd: CHD)</b></p> <p>+ltree_idleupdated(FqParag, FqParad, Cag2, Cag3, Cad2, Cad3)</p>                                                                                                                |                                                                          |          |
| 43 | <p>+SDCCH8_A_1_nociph(TSPX_SDCCH8SubA, C_Immash, Tmslt, Tsc, ChMod_sign, FqParag, FqParad, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)</p>                                                                                                                                                                                             |                                                                          |          |

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                              |                         |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------|
| 44                        | (TCV_chTch := TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                              |                         |
| 45                        | +test(TCV_CAgsm, TCV_CAdcs, Ma1, Ma2, Ma3, Maio2, Maio3, tm, Chd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                              |                         |
|                           | <b>tchf(FqParag, FqParad:FRQPARA; Tmslt:SN; Tsc:TSC; Cag2, Cag3, Cad2, Cad3:CCHD; Ma1, Ma2, Ma3: MA; Maio2, Maio3, tm:INTEGER; Chd: CHD)</b>                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                              |                         |
| 46                        | +ltree_idleupdated(FqParag, FqParad, Cag2, Cag3, Cad2, Cad3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                              |                         |
| 47                        | +FullRateCh_A_1_nociph(C_Immash, Tmslt, Tsc, ChMod_sign, FqParag, FqParad, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                              |                         |
| 48                        | +test(TCV_CAgsm, TCV_CAdcs, Ma1, Ma2, Ma3, Maio2, Maio3, tm, Chd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                              |                         |
|                           | <b>tchh(FqParag, FqParad:FRQPARA; Tmslt:SN; Tsc:TSC; Cag2, Cag3, Cad2, Cad3:CCHD; Ma1, Ma2, Ma3: MA; Maio2, Maio3, tm:INTEGER; Chd: CHD)</b>                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                              |                         |
| 49                        | +ltree_idleupdated(FqParag, FqParad, Cag2, Cag3, Cad2, Cad3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                              |                         |
| 50                        | +HalfRateCh_A_1_nociph(TSPX_TCHHSubDef, C_Immash, Tmslt, Tsc, ChMod_sign, FqParag, FqParad, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |                         |
| 51                        | +test(TCV_CAgsm, TCV_CAdcs, Ma1, Ma2, Ma3, Maio2, Maio3, tm, Chd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                              |                         |
|                           | <b>ltree_immash(Ma1:MA; Chd:CHD)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                              |                         |
| 52                        | L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)                                       |                         |
| 53                        | L?DL_RaclnChRq (TCV_Rr := DL_RaclnChRq.msg.ecau_rrf, TCV_Fn := DL_RaclnChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ChReq(ChRequest_17)                                                          |                         |
| 54                        | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                              | To match ChReq retrans. |
| 55                        | L!DL_UdatRqImmash                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ImmAss(TCV_agch, ImmAsgn_02(TCV_Rr, TCV_Fn, TimingAdv(30), Chd, Ma1))        |                         |
| 56                        | L?DL_EstlnPgRes(TCV_Fn := DL_EstlnPgRes.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PagingRes(PagingRes_01)                                                      |                         |
| 57                        | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                              | Restore Normal default  |
|                           | <b>ltree_idleupdated(FqPg, FqPd:FRQPARA; Cag2, Cag3, Cad2, Cad3:CCHD)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                              |                         |
| 58                        | (TCV_CAgsm := Ca1_g01, TCV_freq := FqPg, TCV_CAgsm.rfl := TCV_freq.flst.fl, TCV_CAdcs := Ca1_g01, TCV_freq := FqPd, TCV_CAdcs.rfl := TCV_freq.flst.fl)                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                              |                         |
| 59                        | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_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_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_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) |                                                                              |                         |
| 60                        | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                              |                         |
| 61                        | (TCV_CAgsm := Cag2, TCV_CAdcs := Cag3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                              | 4.                      |
| 62                        | [TSPC_DCS]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |                         |
| 63                        | (TCV_CAgsm := Cad2, TCV_CAdcs := Cad3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                              | 5.                      |
| <b>Detailed Comments:</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1. To perform test on SDCCH channel.<br>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 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                        |     |                         |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-----|-------------------------|
| <b>Test Case Name:</b>      |       | TC_26_6_7_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                        |     |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                        |     |                         |
| <b>Purpose:</b>             |       | <p>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.</p> <ul style="list-style-type: none"> <li>- the new mode if that mode is supported</li> <li>- the old mode if the new mode is not supported.</li> </ul> <p>This shall be verified for the channel modes</p> <ul style="list-style-type: none"> <li>- signalling only</li> <li>- speech full rate</li> <li>- data 9.6 Kb/s</li> <li>- data 4.8 Kb/s full rate</li> <li>- data 2.4 Kb/s full rate.</li> </ul> |                                                                        |     |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                        |     |                         |
| <b>Comments:</b>            |       | apply only to the MS supporting TCH/F.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                        |     |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                                                   | V   | 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_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)                                            |                                                                        |     | 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                           |       | L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_05)                                 |     |                         |
| 6                           |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ChReq(ChRequest_17)                                                    |     |                         |
| 7                           |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                        |     | To match ChReq retrans. |
| 8                           |       | L!DL_UdatRqImmAss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ImmAss(TCV_agch, ImmAsgn_r13(TCV_Rr, TCV_Fn, TCV_chd1, TimingAdv(30))) |     | 2.                      |
| 9                           |       | L?DL_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PagingRes(PagingRes_r02)                                               |     |                         |
| 10                          |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                        |     | Restore Normal default  |
| 11                          | body  | L!DL_DatRqChmMo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ChmMoReqSnd(TCV_chTch, ChmMoReq_01(ChMod_speech, TCV_chd1))            |     |                         |
| 12                          |       | [TSPC_Serv_TS11 OR TSPC_Serv_TS12]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                        |     |                         |
| 13                          |       | L?DL_DatInChmMoAck                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ChmMoAckRcv(TCV_chTch, ChmMoAck_01(ChMod_speech, TCV_chd1))            | (P) |                         |
| 14                          |       | +localtree(ChMod_speech)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                        |     |                         |
| 15                          |       | [(NOT TSPC_Serv_TS11) AND(NOT TSPC_Serv_TS12)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                        |     |                         |
| 16                          |       | L?DL_DatInChmMoAck                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ChmMoAckRcv(TCV_chTch,                                                 | (P) |                         |

|    |                                                 |                                                            |     |
|----|-------------------------------------------------|------------------------------------------------------------|-----|
| 17 | +localtree(ChMod_sign)                          | ChmomoAck_01(ChMod_sign, TCV_chd1))                        |     |
| 18 | <b>localtree(chm:CHMOD)</b><br>L!DL_DatRqChmomo | ChmomoReqSnd(TCV_chTch, ChmomoReq_01(ChMod_12k, TCV_chd1)) |     |
| 19 | [TSPC_96Data]                                   |                                                            |     |
| 20 | L?DL_DatInChmomoAck                             | ChmomoAckRcv(TCV_chTch, ChmomoAck_01(ChMod_12k, TCV_chd1)) | (P) |
| 21 | L!DL_DatRqChmomo                                | ChmomoReqSnd(TCV_chTch, ChmomoReq_01(ChMod_6k, TCV_chd1))  |     |
| 22 | [TSPC_48DataF]                                  |                                                            |     |
| 23 | +localtree2                                     |                                                            |     |
| 24 | [NOT TSPC_48DataF]                              |                                                            |     |
| 25 | L?DL_DatInChmomoAck                             | ChmomoAckRcv(TCV_chTch, ChmomoAck_01(ChMod_12k, TCV_chd1)) | (P) |
| 26 | L!DL_DatRqChmomo                                | ChmomoReqSnd(TCV_chTch, ChmomoReq_01(ChMod_3k, TCV_chd1))  |     |
| 27 | [TSPC_24DataF]                                  |                                                            |     |
| 28 | L?DL_DatInChmomoAck                             | ChmomoAckRcv(TCV_chTch, ChmomoAck_01(ChMod_3k, TCV_chd1))  | (P) |
| 29 | +localtree1                                     |                                                            |     |
| 30 | [NOT TSPC_24DataF]                              |                                                            |     |
| 31 | L?DL_DatInChmomoAck                             | ChmomoAckRcv(TCV_chTch, ChmomoAck_01(ChMod_12k, TCV_chd1)) | (P) |
| 32 | +localtree1                                     |                                                            |     |
| 33 | [NOT TSPC_96Data]                               |                                                            |     |
| 34 | L?DL_DatInChmomoAck                             | ChmomoAckRcv(TCV_chTch, ChmomoAck_01(chm, TCV_chd1))       | (P) |
| 35 | L!DL_DatRqChmomo                                | ChmomoReqSnd(TCV_chTch, ChmomoReq_01(ChMod_6k, TCV_chd1))  |     |
| 36 | [TSPC_48DataF]                                  |                                                            |     |
| 37 | +localtree2                                     |                                                            |     |
| 38 | [NOT TSPC_48DataF]                              |                                                            |     |
| 39 | L?DL_DatInChmomoAck                             | ChmomoAckRcv(TCV_chTch, ChmomoAck_01(chm, TCV_chd1))       | (P) |
| 40 | L!DL_DatRqChmomo                                | ChmomoReqSnd(TCV_chTch, ChmomoReq_01(ChMod_3k, TCV_chd1))  |     |
| 41 | [TSPC_24DataF]                                  |                                                            |     |
| 42 | L?DL_DatInChmomoAck                             | ChmomoAckRcv(TCV_chTch, ChmomoAck_01(ChMod_3k, TCV_chd1))  | (P) |
| 43 | +localtree1                                     |                                                            |     |
| 44 | [NOT TSPC_24DataF]                              |                                                            |     |
| 45 | L?DL_DatInChmomoAck                             | ChmomoAckRcv(TCV_chTch, ChmomoAck_01(chm                   | (P) |

|                           |                                                                                    |                                                                    |     |
|---------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------|-----|
| 46                        | +localtree1                                                                        | , TCV_chd1))                                                       |     |
| 47                        | <b>localtree1</b><br>L!DL_DatRqChmmo                                               | ChmmoReqSnd(TCV_chTch,<br>ChmomoReq_01(ChMod_sign,<br>TCV_chd1))   |     |
| 48                        | L?DL_DatInChmmoAck                                                                 | ChmmoAckRcv(TCV_chTch,<br>ChmomoAck_01(ChMod_sign, TCV_chd1))      | (P) |
| 49                        | +PostMainLinkRel(TCV_chTch)                                                        |                                                                    |     |
| 50                        | <b>localtree2</b><br>L?DL_DatInChmmoAck                                            | ChmmoAckRcv(TCV_chTch,<br>ChmomoAck_01(ChMod_6k, TCV_chd1))        | (P) |
| 51                        | L!DL_DatRqChmmo                                                                    | ChmmoReqSnd(TCV_chTch,<br>ChmomoReq_01(ChMod_3k, TCV_chd1))        |     |
| 52                        | [TSPC_24DataF]                                                                     |                                                                    |     |
| 53                        | L?DL_DatInChmmoAck                                                                 | ChmmoAckRcv(TCV_chTch,<br>ChmomoAck_01(ChMod_3k, TCV_chd1))        | (P) |
| 54                        | +localtree1                                                                        |                                                                    |     |
| 55                        | [NOT TSPC_24DataF]                                                                 |                                                                    |     |
| 56                        | L?DL_DatInChmmoAck                                                                 | ChmmoAckRcv(TCV_chTch,<br>ChmomoAck_01(ChMod_6k, TCV_chd1))        | (P) |
| 57                        | +localtree1                                                                        |                                                                    |     |
| 58                        | <b>gsmOrDcs</b><br>[TSPC_PGSM OR TSPC_EGSM]                                        |                                                                    |     |
| 59                        | (TCV_chd1 := ChDescrp_nfh('00001'B,<br>TSPX_TmSltDef, TSPX_TscDef, C_arfcn_tchA))  |                                                                    |     |
| 60                        | [TSPC_DCS]                                                                         |                                                                    |     |
| 61                        | (TCV_chd1 := ChDescrp_nfh('00001'B,<br>TSPX_TmSltDef, TSPX_TscDef, C_arfcn_tchAd)) |                                                                    |     |
| <b>Detailed Comments:</b> |                                                                                    | 1. Default system information for RR testing.<br>2. TCH/F channel. |     |

### Test Case Dynamic Behaviour

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_26_6_7_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Group:</b>          | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Purpose:</b>        | 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 <ul style="list-style-type: none"> <li>- the new mode if that mode is supported</li> <li>- the old mode if the new mode is not supported.</li> </ul> <p>This shall be verified for the channel modes</p> <ul style="list-style-type: none"> <li>- signalling only</li> <li>- speech half rate</li> <li>- data 4.8 Kb/s half rate</li> <li>- data 2.4 Kb/s half rate</li> </ul> |
| <b>Default:</b>        | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Comments:</b>       | apply only to the MS supporting TCH/H.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CRef                                                                   | V   | Comments                |
|----|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-----|-------------------------|
| 1  |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                        |     |                         |
| 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_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_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) |                                                                        |     |                         |
| 3  |       | +gsmOrDcs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                        |     |                         |
| 4  |       | +HalfRateCh_A_1_nociph(TSPX_TCHSubA, C_ImmAs, TSPX_TmSltDef, TSPX_TscDef, ChMod_sign, FreqTCH(C_arfcn_tchA), FreqTCH(C_arfcn_tchAd), TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                     |                                                                        |     |                         |
| 5  |       | L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_05)                                 |     |                         |
| 6  |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ChReq(ChRequest_17)                                                    |     |                         |
| 7  |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                        |     | To match ChReq retrans. |
| 8  |       | L!DL_UdatRqImmAs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 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  |
| 11 |       | L!DL_DatRqChmMo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ChmMoReqSnd(TCV_chTch, ChmMoReq_02(ChMod_speech, TCV_chd1))            |     |                         |
| 12 |       | L?DL_DatInChmMoAck                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ChmMoAckRcv(TCV_chTch, ChmMoAck_02(ChMod_speech, TCV_chd1))            | (P) |                         |
| 13 |       | [TSPC_HalfRateSpeech]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                        |     |                         |
| 14 |       | L?DL_DatInChmMoAck                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ChmMoAckRcv(TCV_chTch, ChmMoAck_02(ChMod_speech, TCV_chd1))            | (P) |                         |
| 15 |       | +localtree(ChMod_speech)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                        |     |                         |



|    |                              |                                                                    |     |
|----|------------------------------|--------------------------------------------------------------------|-----|
| 16 | [NOT<br>TSPC_HalfRateSpeech] |                                                                    |     |
| 17 | L?DL_DatInChmmoAck           | ChmmoAckRcv(TCV_ chTch,<br>ChmomoAck_02(ChM od_sign, TCV_chd1))    | (P) |
| 18 | +localtree(ChMod_sign)       |                                                                    |     |
|    | <b>localtree(chm:CHMOD)</b>  |                                                                    |     |
| 19 | L!DL_DatRqChmmo              | ChmmoReqSnd(TCV_ chTch,<br>ChmomoReq_02(Ch Mod_6k, TCV_chd1))      |     |
| 20 | [TSPC_48DataH]               |                                                                    |     |
| 21 | +localtree2                  |                                                                    |     |
| 22 | [NOT TSPC_48DataH]           |                                                                    |     |
| 23 | L?DL_DatInChmmoAck           | ChmmoAckRcv(TCV_ chTch,<br>ChmomoAck_02(chm , TCV_chd1))           | (P) |
| 24 | LIDL_DatRqChmmo              | ChmmoReqSnd(TCV_ chTch,<br>ChmomoReq_02(Ch Mod_3k, TCV_chd1))      |     |
| 25 | [TSPC_24DataH]               |                                                                    |     |
| 26 | L?DL_DatInChmmoAck           | ChmmoAckRcv(TCV_ chTch,<br>ChmomoAck_02(ChM od_3k, TCV_chd1))      | (P) |
| 27 | +localtree1                  |                                                                    |     |
| 28 | [NOT TSPC_24DataH]           |                                                                    |     |
| 29 | L?DL_DatInChmmoAck           | ChmmoAckRcv(TCV_ chTch,<br>ChmomoAck_02(chm , TCV_chd1))           | (P) |
| 30 | +localtree1                  |                                                                    |     |
|    | <b>localtree1</b>            |                                                                    |     |
| 31 | L!DL_DatRqChmmo              | ChmmoReqSnd(TCV_ chTch,<br>ChmomoReq_02(Ch Mod_sign,<br>TCV_chd1)) |     |
| 32 | L?DL_DatInChmmoAck           | ChmmoAckRcv(TCV_ chTch,<br>ChmomoAck_02(ChM od_sign, TCV_chd1))    | (P) |
| 33 | +PostMainLinkRel(TCV_chTch)  |                                                                    |     |
|    | <b>localtree2</b>            |                                                                    |     |
| 34 | L?DL_DatInChmmoAck           | ChmmoAckRcv(TCV_ chTch,<br>ChmomoAck_02(ChM od_6k, TCV_chd1))      | (P) |
| 35 | LIDL_DatRqChmmo              | ChmmoReqSnd(TCV_ chTch,<br>ChmomoReq_02(Ch Mod_3k, TCV_chd1))      |     |
| 36 | [TSPC_24DataH]               |                                                                    |     |
| 37 | L?DL_DatInChmmoAck           | ChmmoAckRcv(TCV_ chTch,<br>ChmomoAck_02(ChM od_3k, TCV_chd1))      | (P) |
| 38 | +localtree1                  |                                                                    |     |
| 39 | [NOT TSPC_24DataH]           |                                                                    |     |
| 40 | L?DL_DatInChmmoAck           | ChmmoAckRcv(TCV_ chTch,<br>ChmomoAck_02(ChM od_6k, TCV_chd1))      | (P) |
| 41 | +localtree1                  |                                                                    |     |

|                           |                                                                                                  |                                                                    |  |  |
|---------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|--|--|
| 42                        | <b>gsmOrDcs</b>                                                                                  |                                                                    |  |  |
| 43                        | [TSPC_PGSM OR TSPC_EGSM]                                                                         |                                                                    |  |  |
| 44                        | (TCV_chd1 :=<br>ChDescrp_tchh_nfh(TSPX_TmSlitDef,<br>TSPX_TscDef, TSPX_TCHHSubA, C_arfcn_tchA))  |                                                                    |  |  |
| 45                        | [TSPC_DCS]                                                                                       |                                                                    |  |  |
|                           | (TCV_chd1 :=<br>ChDescrp_tchh_nfh(TSPX_TmSlitDef,<br>TSPX_TscDef, TSPX_TCHHSubA, C_arfcn_tchAd)) |                                                                    |  |  |
| <b>Detailed Comments:</b> |                                                                                                  | 1. Default system infirmations for RR testing.<br>2. TCH/H channel |  |  |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                         |   |                         |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|---|-------------------------|
| <b>Test Case Name:</b>      |       | TC_26_6_8_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                         |   |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                         |   |                         |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                  |                                                                                                                         |   |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                         |   |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CRef                                                                                                                    | V | 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_NECl_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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_02, BcchFreqLst_01, BcchFreqLst_04, BcchFreqLst_48, C_Reestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNA, TSPX_RANDA, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2) |                                                                                                                         |   |                         |
| 4                           | body  | [TSPC_Feat_A51]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                         |   |                         |
| 5                           |       | (TCV_CphAlg := '000'B)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                         |   |                         |
| 6                           |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                         |   |                         |
| 7                           |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                         |   | 2.                      |
| 8                           |       | [TSPC_Feat_A52]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                         |   |                         |
| 9                           |       | (TCV_CphAlg := '001'B)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                         |   |                         |
| 10                          |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                         |   |                         |
| 11                          |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                         |   | 3.                      |
| 12                          |       | [NOT TSPC_Feat_A52]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                         |   |                         |
| 13                          |       | [NOT TSPC_Feat_A51]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                         |   |                         |
| 14                          |       | [TSPC_Feat_A52]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                         |   |                         |
| 15                          |       | (TCV_CphAlg := '001'B)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                         |   |                         |
| 16                          |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                         |   |                         |
| 17                          |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                         |   | 3.                      |
| 18                          |       | [NOT TSPC_Feat_A52]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                         |   |                         |
|                             |       | <b>localtree</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                         |   |                         |
| 19                          |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ChReq(ChRequest_04)                                                                                                     |   |                         |
| 20                          |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                         |   | To match ChReq retrans. |
| 21                          |       | L!DL_UdatRqImmass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30))) |   |                         |
| 22                          |       | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CMSerReq(CMServiceReq_01)                                                                                               |   |                         |
| 23                          |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                         |   | Restore Normal default  |
| 24                          |       | L!DL_DatRqAuthRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | AuthReq(TCV_ch, AuthRequest(TSPX_CKSNA, TSPX_RANDA))                                                                    |   |                         |
| 25                          |       | L?DL_DatInAuthRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | AuthRes(AuthResponse)                                                                                                   |   |                         |
| 26                          |       | (TCV_CphMd.algid := TCV_CphAlg, TCV_Null := OM_CphMdChg(TCV_ch, TCV_CphMd, TCV_CphKey))                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                         |   |                         |
| 27                          |       | L!DL_DatRqCphmCmd (DL_DatRqCphmCmd.msg.cphms.algid := TCV_CphAlg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CphCmd(TCV_ch, CphModeCmd_01)                                                                                           |   | 4.                      |

|                                                                                                                                                                                                                                                        |  |                          |                                                      |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------|------------------------------------------------------|-----|
| 28                                                                                                                                                                                                                                                     |  | L?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?DL_DatInAuthRes        | AuthRes(AuthResponse)                                | (P) |
| 32                                                                                                                                                                                                                                                     |  | +PostMainLinkRel(TCV_ch) |                                                      |     |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                              |  |                          |                                                      |     |
| <ol style="list-style-type: none"> <li>1. 1 cell with default parameters except Radio-Link-Time-out = 64.</li> <li>2. Test the A5/1 algorithm.</li> <li>3. Test the A5/2 algorithm.</li> <li>4. Ciphering mode setting = "Start ciphering".</li> </ol> |  |                          |                                                      |     |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                       |     |                         |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| <b>Test Case Name:</b>      |       | TC_26_6_8_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                       |     |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                       |     |                         |
| <b>Purpose:</b>             |       | To verify that the MS does not start ciphering when it receives a CIPHERING MODE COMMAND message with Cipher Mode Setting = "No Ciphering".                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                       |     |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                       |     |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                                                                                                  | V   | Comments                |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                       |     |                         |
| 2                           |       | +BasicServiceMO(TSPX_MOBscSvcC, TSPX_MOChRateC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                       |     |                         |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_05, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_02, BcchFreqLst_01, BcchFreqLst_04, BcchFreqLst_48, C_Reestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2) |                                                                                                                       |     |                         |
| 4                           | body  | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                       |     |                         |
| 5                           |       | L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ChReq(ChRequest_04)                                                                                                   |     |                         |
| 6                           |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                       |     | To match ChReq retrans. |
| 7                           |       | L!DL_UdatRqImmass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubA, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30))) |     |                         |
| 8                           |       | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CMSerReq(CMServic eReq_01)                                                                                            |     |                         |
| 9                           |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                       |     | Restore Normal default  |
| 10                          |       | L!DL_DatRqAuthRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | AuthReq(TCV_ch, AuthRequest(TSPX_CKSNDf, TSPX_RANDDef))                                                               |     |                         |
| 11                          |       | L?DL_DatInAuthRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | AuthRes(AuthRespon se)                                                                                                |     |                         |
| 12                          |       | L!DL_DatRqCphmCmd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CphCmd(TCV_ch, CphModeCmd_02)                                                                                         |     | 2.                      |
| 13                          |       | L?DL_DatInCphmCom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CphCom(CphModeC mp_01)                                                                                                |     |                         |
| 14                          |       | L?DL_DatInSetup                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | SetupRcv(SetupInd_01)                                                                                                 | (P) |                         |
| 15                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                       |     |                         |
| <b>Detailed Comments:</b>   |       | 1. 1 cell with default parameters except Radio-Link-Time-out = 64.<br>2. Ciphering mode setting = "no ciphering".                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                       |     |                         |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                            |     |                         |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| <b>Test Case Name:</b>      |       | TC_26_6_8_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                            |     |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                            |     |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CRef                                                                                                                                       | V   | Comments                |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                            |     |                         |
| 2                           |       | +BasicServiceMO(TSPX_MOBscSvcB,<br>TSPX_MOChRateB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                            |     |                         |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_05, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_02, BcchFreqLst_01,<br>BcchFreqLst_04, BcchFreqLst_48,<br>C_Reestablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubB,<br>TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                                                                                                                            |     |                         |
| 4                           | body  | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                            |     |                         |
| 5                           |       | L?DL_RaInChRq (TCV_Rr :=<br>DL_RaInChRq, msg.ecau_rrf, TCV_Fn :=<br>DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ChReq(ChRequest_0<br>4)                                                                                                                    |     |                         |
| 6                           |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                            |     | To match ChReq retrans. |
| 7                           |       | L!DL_UdatRqImmass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ImmAssn(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubB<br>, TCV_slot, TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(30))) |     |                         |
| 8                           |       | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CMSerReq(CMServic<br>eReq_01)                                                                                                              |     |                         |
| 9                           |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                            |     | Restore Normal default  |
| 10                          |       | (TCV_CphMd.algid :=<br>TSPX_CphAlgA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                            |     | 2.                      |
| 11                          |       | (TCV_Null :=<br>OM_CphMdChg(TCV_ch,<br>TCV_CphMd, TCV_CphKey))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                            |     |                         |
| 12                          |       | L!DL_DatRqCphmCmd<br>(DL_DatRqCphmCmd.msg.cph<br>ms.algid := TSPX_CphAlgA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CphCmd(TCV_ch,<br>CphModeCmd_01)                                                                                                           |     | 3.                      |
| 13                          |       | L?DL_DatInCphmCom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CphCom(CphModeC<br>mp_01)                                                                                                                  | (P) |                         |
| 14                          |       | L?DL_DatInSetup                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SetupRcv(SetupInd_0<br>1)                                                                                                                  | (P) |                         |
| 15                          |       | +PostMainLinkRel(TCV_c<br>h)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                            |     |                         |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1 cell with default parameters except Radio-Link-Time-out = 64.</li> <li>The cohering algorithm is chosen arbitrarily but controllable (TSPX_CphAlgA).</li> <li>Ciphering mode setting = "Start ciphering", old stored Kc. (generated by TSPX_Ki and TSPX_RANDDef)</li> </ol>                                                                                                                                                                                                                                                                                             |                                                                                                                                            |     |                         |

### Test Case Dynamic Behaviour

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_26_6_8_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Group:</b>          | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Purpose:</b>        | <p>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.</p> <p>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.</p> <p>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.</p> <p>4 To verify that when the MS receives a HANOVER 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</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>8 To verify that when the MS receives a HANOVER COMMAND message and the handover fails, the MS sends a HANOVER FAILURE message on the old channel using the old ciphering mode and (if ciphered) the old algorithm and old key.</p> <p>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.</p> |
| <b>Default:</b>        | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CRef                                   | V | 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_NECl_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_SDCCH4SubA, TSPX_CKSNB, TSPX_RANDB, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                        |   |          |
| 3  |       | (TCV_ch1 := OC_SubchOfSdcch4(TSPX_SDCCH4SubB, C_CellA))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        |   |          |
| 4  |       | +ltree_body                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |   |          |
| 5  |       | <b>ltree_body</b><br>L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01) |   |          |
| 6  |       | L?DL_RaclnChRq (TCV_Rr := DL_RaclnChRq.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ChReq(ChRequest_1                      |   |          |

|    |                                                                                                                                                                                |                                                      |                         |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------|
| 7  | msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                        | 7)                                                   |                         |
| 8  | ACTIVATE(OtherEventsFail_02)                                                                                                                                                   |                                                      | To match ChReq retrans. |
| 9  | +ltree_ImmAss<br>L?DL_EstInPgRes                                                                                                                                               | PagingRes(PagingRes_01)                              |                         |
| 10 | ACTIVATE(OtherEventsFail)                                                                                                                                                      |                                                      | Restore Normal default  |
| 11 | +localtree1                                                                                                                                                                    |                                                      |                         |
| 12 | +localtree2                                                                                                                                                                    |                                                      |                         |
| 13 | +localtree3                                                                                                                                                                    |                                                      |                         |
| 14 | [(TSPC_Feat_A51 AND(NOT TSPC_Feat_A52)) OR((NOT TSPC_Feat_A51) AND TSPC_Feat_A52)]                                                                                             |                                                      |                         |
| 15 | +PostMainLinkRel(TCV_ch)                                                                                                                                                       |                                                      |                         |
| 16 | [TSPC_Feat_A51 AND TSPC_Feat_A52]                                                                                                                                              |                                                      |                         |
| 17 | +localtree4                                                                                                                                                                    |                                                      |                         |
|    | <b>localtree1</b>                                                                                                                                                              |                                                      |                         |
| 18 | (TCV_Null := OM_CphMdChg(TCV_ch, CphMod_04(TSPX_CphAlgA), TCV_CphKey))                                                                                                         |                                                      |                         |
| 19 | LIDL_DatRqCphmCmd (DL_DatRqCphmCmd.msg.cphms.algid := TSPX_CphAlgA)                                                                                                            | CphCmd(TCV_ch, CphModeCmd_01)                        |                         |
| 20 | START T_dly1(500)                                                                                                                                                              |                                                      |                         |
| 21 | ?TIMEOUT T_dly1                                                                                                                                                                |                                                      | (F)                     |
| 22 | +PostMainLinkRel(TCV_ch)                                                                                                                                                       |                                                      |                         |
| 23 | L?DL_DatInCphmCom CANCEL T_dly1                                                                                                                                                | CphCom(CphModeCmp_01)                                |                         |
| 24 | LIDL_DatRqAuthRq                                                                                                                                                               | AuthReq(TCV_ch, AuthRequest(TSPX_CKSNB, TSPX_RANDB)) | 2.                      |
| 25 | L?DL_DatInAuthRes                                                                                                                                                              | AuthRes(AuthResponse)                                |                         |
| 26 | +ltree_HndOv0                                                                                                                                                                  |                                                      |                         |
| 27 | +handoverAcc(TCV_ch1)                                                                                                                                                          |                                                      |                         |
| 28 | L?DL_EstIn                                                                                                                                                                     | DLEstInd(TCV_ch1)                                    |                         |
| 29 | L?DL_DatInHoCom                                                                                                                                                                | HndOvCmpRcv(TCV_ch1, HandOverCmp_01)                 | (P)                     |
|    | <b>localtree2</b>                                                                                                                                                              |                                                      |                         |
| 30 | (TCV_ch := OC_SubchOfSdcch4(TSPX_SDCCH4SubC, C_CellA), TCV_Null := OM_CphMd(TCV_ch, CphMod_04(TSPX_CphAlgB), TCV_CphKey))                                                      |                                                      |                         |
| 31 | +ltree_Asgn1                                                                                                                                                                   |                                                      |                         |
| 32 | +AssCh_complete(TCV_ch1, TCV_ch, TCV_AssCmd)                                                                                                                                   |                                                      | 3.                      |
| 33 | LIDL_DatRqCphmCmd START T_dly1(500)                                                                                                                                            | CphCmd(TCV_ch, CphModeCmd_02)                        | 4.                      |
| 34 | ?TIMEOUT T_dly1                                                                                                                                                                |                                                      | (F)                     |
| 35 | +PostMainLinkRel(TCV_ch)                                                                                                                                                       |                                                      |                         |
| 36 | L?DL_DatInCphmCom CANCEL T_dly1                                                                                                                                                | CphCom(CphModeCmp_01)                                |                         |
| 37 | (TCV_ch1 := OC_SubchOfSdcch4(TSPX_SDCCH4SubDef, C_CellA), TCV_CphKey := OC_CphKeyGen(TSPX_Ki, TSPX_RANDB), TCV_Null := OM_CphMd(TCV_ch1, CphMod_04(TSPX_CphAlgB), TCV_CphKey)) |                                                      |                         |
| 38 | +ltree_HndOv1                                                                                                                                                                  |                                                      | 5.                      |
| 39 | +handoverAcc(TCV_ch1)                                                                                                                                                          |                                                      |                         |
| 40 | L?DL_EstIn                                                                                                                                                                     | DLEstInd(TCV_ch1)                                    |                         |
| 41 | L?DL_DatInHoCom                                                                                                                                                                | HndOvCmpRcv(TCV_ch1, HandOverCmp_01)                 | (P)                     |



|    |                                                                                                                                           |                                                                 |     |
|----|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-----|
| 42 | (TCV_ch :=<br>OC_SubchOfSdcch4(TSPX_SDC<br>CH4SubA, C_CellA), TCV_Null :=<br>OM_CphMd(TCV_ch,<br>CphMod_04(TSPX_CphAlgB),<br>TCV_CphKey)) |                                                                 |     |
| 43 | +ltree_HndOv2                                                                                                                             |                                                                 | 6.  |
| 44 | +handoverAcc(TCV_ch)                                                                                                                      |                                                                 |     |
| 45 | L?DL_EstIn                                                                                                                                | DLEstInd(TCV_ch)                                                |     |
| 46 | L?DL_DatInHoCom                                                                                                                           | HndOvCmpRcv(TCV_<br>ch,<br>HandOverCmp_01)                      |     |
|    | <b>localtree3</b>                                                                                                                         |                                                                 |     |
| 47 | (TCV_ch1 :=<br>OC_SubchOfSdcch4(TSPX_SDCCH4SubB,<br>C_CellA), TCV_Null := OM_CphMd(TCV_ch1,<br>CphMod_02, TCV_CphKey))                    |                                                                 |     |
| 48 | +ltree_Asgn2                                                                                                                              |                                                                 |     |
| 49 | +AssCh_complete(TCV_ch,TCV_ch1,TCV_AssC<br>md)                                                                                            |                                                                 |     |
| 50 | L!DL_DatRqCphmCmd START T_dly1(500)                                                                                                       | CphCmd(TCV_ch1,<br>CphModeCmd_02)                               |     |
| 51 | ?TIMEOUT T_dly1                                                                                                                           |                                                                 | (F) |
| 52 | +PostMainLinkRel(TCV_ch1)                                                                                                                 |                                                                 |     |
| 53 | L?DL_DatInCphmCom CANCEL T_dly1                                                                                                           | CphCom(CphModeC<br>mp_01)                                       |     |
| 54 | L!DL_DatRqAuthRq                                                                                                                          | AuthReq(TCV_ch1,<br>AuthRequest(TSPX_<br>CKSNC,<br>TSPX_RANDC)) | 8.  |
| 55 | L?DL_DatInAuthRes                                                                                                                         | AuthRes(AuthRespon<br>se)                                       |     |
| 56 | (TCV_ch :=<br>OC_SubchOfSdcch4(TSPX_SDCCH4S<br>ubC, C_CellA), TCV_Null :=<br>OM_CphMd(TCV_ch,<br>CphMod_04(TSPX_CphAlgD),<br>TCV_CphKey)) |                                                                 |     |
| 57 | +ltree_HndOv3                                                                                                                             |                                                                 | 9.  |
| 58 | +handoverAcc(TCV_ch)                                                                                                                      |                                                                 |     |
| 59 | L?DL_EstIn                                                                                                                                | DLEstInd(TCV_ch)                                                |     |
| 60 | L?DL_DatInHoCom                                                                                                                           | HndOvCmpRcv(TCV_<br>ch,<br>HandOverCmp_01)                      | (P) |
| 61 | (TCV_ch1 :=<br>OC_SubchOfSdcch4(TSPX_<br>SDCCH4SubB, C_CellA))                                                                            |                                                                 |     |
| 62 | +ltree_HndOv0                                                                                                                             |                                                                 | 10. |
| 63 | L?DL_EstIn                                                                                                                                | DLEstInd(TCV_ch)                                                |     |
| 64 | L?DL_DatInHofl                                                                                                                            | HndOvFIRcv(TCV_ch,<br>HandOvFail_01)                            | (P) |
| 65 | +ltree_Asgn2                                                                                                                              |                                                                 |     |
| 66 | +AssCh_failure(TC<br>V_ch,TCV_AssCmd<br>,TRUE)                                                                                            |                                                                 |     |
|    | <b>localtree4</b>                                                                                                                         |                                                                 |     |
| 67 | (TCV_Null := OM_CphMd(TCV_ch1,<br>CphMod_04(TSPX_CphAlgE), TCV_CphKey))                                                                   |                                                                 |     |
| 68 | +ltree_Asgn3                                                                                                                              |                                                                 |     |
| 69 | +AssCh_complete(TCV_ch,TCV_ch1,TCV_AssC<br>md)                                                                                            |                                                                 |     |
| 70 | (TCV_ch :=<br>OC_SubchOfSdcch4(TSPX_SDCCH4SubA,<br>C_CellA), TCV_Null := OM_CphMd(TCV_ch,<br>CphMod_04(TSPX_CphAlgE), TCV_CphKey))        |                                                                 |     |
| 71 | +ltree_HndOv4                                                                                                                             |                                                                 |     |
| 72 | +handoverAcc(TCV_ch)                                                                                                                      |                                                                 |     |
| 73 | L?DL_EstIn                                                                                                                                | DLEstInd(TCV_ch)                                                |     |
| 74 | L?DL_DatInHoCom                                                                                                                           | HndOvCmpRcv(TCV_<br>ch,<br>HandOverCmp_01)                      | (P) |

|    |                                                                                                                                                                     |                                                                                                                                                                                                                  |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 75 | +PostMainLinkRel(TCV_ch)                                                                                                                                            | ch,<br>HandOverCmp_01)                                                                                                                                                                                           |
| 76 | <b>handoverAcc(ch:LOGICCH)</b><br>L?DL_RaInHoacc                                                                                                                    | HndOvAccRcv(ch,<br>HandOverAcc_01)                                                                                                                                                                               |
| 77 | L?DL_RaInHoacc                                                                                                                                                      | HndOvAccRcv(ch,<br>HandOverAcc_01)                                                                                                                                                                               |
| 78 | L?DL_RaInHoacc                                                                                                                                                      | HndOvAccRcv(ch,<br>HandOverAcc_01)                                                                                                                                                                               |
| 79 | L?DL_RaInHoacc                                                                                                                                                      | HndOvAccRcv(ch,<br>HandOverAcc_01)                                                                                                                                                                               |
| 80 | <b>Itree_ImmAss</b><br>L!DL_UdatRqImm                                                                                                                               | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubA<br>, TCV_slot, TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(30)))                                                                        |
| 81 | <b>Itree_Asgn1</b><br>(TCV_Tchtype := INT_TO_BIT((4 +<br>BIT_TO_INT(TSPX_SDCCH4SubC)), 5))                                                                          |                                                                                                                                                                                                                  |
| 82 | (TCV_AssCmd := AsgnCmd_nfh(TCV_Tchtype,<br>TCV_slot, TCV_tsc, 9, TCV_chdescr_arfcn,<br>CellChDes_omit, ChMod_omit, StartingTm_omit,<br>CphMod_04iei(TSPX_CphAlgB))) |                                                                                                                                                                                                                  |
| 83 | <b>Itree_Asgn2</b><br>(TCV_Tchtype := INT_TO_BIT((4 +<br>BIT_TO_INT(TSPX_SDCCH4SubB)), 5))                                                                          |                                                                                                                                                                                                                  |
| 84 | (TCV_AssCmd := AsgnCmd_nfh(TCV_Tchtype,<br>TCV_slot, TCV_tsc, 9, TCV_chdescr_arfcn,<br>CellChDes_omit, ChMod_omit, StartingTm_omit,<br>CphMod_02iei))               |                                                                                                                                                                                                                  |
| 85 | <b>Itree_Asgn3</b><br>(TCV_Tchtype := INT_TO_BIT((4 +<br>BIT_TO_INT(TSPX_SDCCH4SubB)), 5))                                                                          |                                                                                                                                                                                                                  |
| 86 | (TCV_AssCmd := AsgnCmd_nfh(TCV_Tchtype,<br>TCV_slot, TCV_tsc, 9, TCV_chdescr_arfcn,<br>CellChDes_omit, ChMod_omit, StartingTm_omit,<br>CphMod_04iei(TSPX_CphAlgE))) |                                                                                                                                                                                                                  |
| 87 | <b>Itree_HndOv0</b><br>(TCV_Tchtype := INT_TO_BIT((4 +<br>BIT_TO_INT(TSPX_SDCCH4SubB)), 5))                                                                         |                                                                                                                                                                                                                  |
| 88 | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                                            |                                                                                                                                                                                                                  |
| 89 | LIDL_DatRqHoCmd                                                                                                                                                     | HndOvSnd(TCV_ch,<br>HandOverCmd(TCV_<br>Tchtype, TCV_slot,<br>TCV_tsc, C_arfcnA,<br>C_arfcnA,<br>TSPX_HoRefA, 8,<br>C_not_report_otd,<br>C_synchronized,<br>RelTmdDif_omit,<br>TimingAdv_omit,<br>CphMod_02iei)) |
| 90 | [TSPC_DCS]                                                                                                                                                          |                                                                                                                                                                                                                  |
| 91 | LIDL_DatRqHoCmd                                                                                                                                                     | HndOvSnd(TCV_ch,<br>HandOverCmd(TCV_<br>Tchtype, TCV_slot,<br>TCV_tsc, C_arfcnAd,<br>C_arfcnAd,<br>TSPX_HoRefA, 8,<br>C_not_report_otd,<br>C_synchronised,<br>RelTmdDif_omit,                                    |

|     |                                                                                               |                                                                                                                                                                                                                                       |
|-----|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                                                                                               | TimingAdv_omit,<br>CphMod_02iei))                                                                                                                                                                                                     |
| 92  | <b>Itree_HndOv1</b><br>(TCV_Tchtype := INT_TO_BIT((4 +<br>BIT_TO_INT(TSPX_SDCCH4SubDef)), 5)) |                                                                                                                                                                                                                                       |
| 93  | [TSPC_PGSM OR TSPC_EGSM]                                                                      |                                                                                                                                                                                                                                       |
| 94  | LIDL_DatRqHoCmd                                                                               | HndOvSnd(TCV_ch1,<br>HandOverCmd(TCV_<br>Tchtype, TCV_slot,<br>TCV_tsc, C_arfcnA,<br>C_arfcnA,<br>TSPX_HoRefA, 8,<br>C_not_report_otd,<br>C_synchronised,<br>RelTmdDif_omit,<br>TimingAdv_omit,<br>CphMod_04iei(TSPX_<br>CphAlgC)))   |
| 95  | [TSPC_DCS]                                                                                    |                                                                                                                                                                                                                                       |
| 96  | LIDL_DatRqHoCmd                                                                               | HndOvSnd(TCV_ch1,<br>HandOverCmd(TCV_<br>Tchtype, TCV_slot,<br>TCV_tsc, C_arfcnAd,<br>C_arfcnAd,<br>TSPX_HoRefA, 8,<br>C_not_report_otd,<br>C_synchronised,<br>RelTmdDif_omit,<br>TimingAdv_omit,<br>CphMod_04iei(TSPX_<br>CphAlgC))) |
| 97  | <b>Itree_HndOv2</b><br>(TCV_Tchtype := INT_TO_BIT((4 +<br>BIT_TO_INT(TSPX_SDCCH4SubA)), 5))   |                                                                                                                                                                                                                                       |
| 98  | [TSPC_PGSM OR TSPC_EGSM]                                                                      |                                                                                                                                                                                                                                       |
| 99  | LIDL_DatRqHoCmd                                                                               | HndOvSnd(TCV_ch1,<br>HandOverCmd(TCV_<br>Tchtype, TCV_slot,<br>TCV_tsc, C_arfcnA,<br>C_arfcnA,<br>TSPX_HoRefA, 8,<br>C_not_report_otd,<br>C_synchronised,<br>RelTmdDif_omit,<br>TimingAdv_omit,<br>CphMod_04iei(TSPX_<br>CphAlgC)))   |
| 100 | [TSPC_DCS]                                                                                    |                                                                                                                                                                                                                                       |
| 101 | LIDL_DatRqHoCmd                                                                               | HndOvSnd(TCV_ch1,<br>HandOverCmd(TCV_<br>Tchtype, TCV_slot,<br>TCV_tsc, C_arfcnAd,<br>C_arfcnAd,<br>TSPX_HoRefA, 8,<br>C_not_report_otd,<br>C_synchronised,<br>RelTmdDif_omit,<br>TimingAdv_omit,<br>CphMod_04iei(TSPX_<br>CphAlgC))) |
| 102 | <b>Itree_HndOv3</b><br>(TCV_Tchtype := INT_TO_BIT((4 +<br>BIT_TO_INT(TSPX_SDCCH4SubC)), 5))   |                                                                                                                                                                                                                                       |
| 103 | [TSPC_PGSM OR TSPC_EGSM]                                                                      |                                                                                                                                                                                                                                       |
| 104 | LIDL_DatRqHoCmd                                                                               | HndOvSnd(TCV_ch1,<br>HandOverCmd(TCV_<br>Tchtype, TCV_slot,<br>TCV_tsc, C_arfcnA,<br>C_arfcnA,<br>TSPX_HoRefA, 8,<br>C_not_report_otd,                                                                                                |

|     |                                                                                             |                                                                                                                                                          |
|-----|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 105 | [TSPC_DCS]                                                                                  | C_synchronised,<br>RelTmdDif_omit,<br>TimingAdv_omit,<br>CphMod_04iei(TSPX_                                                                              |
| 106 | LIDL_DatRqHoCmd                                                                             | CphAlgD)))                                                                                                                                               |
| 107 | <b>Itree_HndOv4</b><br>(TCV_Tchtype := INT_TO_BIT((4 +<br>BIT_TO_INT(TSPX_SDCCH4SubA)), 5)) | HndOvSnd(TCV_ch1,<br>HandOverCmd(TCV_                                                                                                                    |
| 108 | [TSPC_PGSM OR TSPC_EGSM]                                                                    | Tchtype, TCV_slot,                                                                                                                                       |
| 109 | LIDL_DatRqHoCmd                                                                             | TCV_tsc, C_arfcnAd,<br>C_arfcnAd,<br>TSPX_HoRefA, 8,<br>C_not_report_otd,<br>C_synchronised,<br>RelTmdDif_omit,<br>TimingAdv_omit,<br>CphMod_04iei(TSPX_ |
| 110 | [TSPC_DCS]                                                                                  | CphAlgD)))                                                                                                                                               |
| 111 | LIDL_DatRqHoCmd                                                                             | HndOvSnd(TCV_ch1,<br>HandOverCmd(TCV_                                                                                                                    |
|     |                                                                                             | Tchtype, TCV_slot,                                                                                                                                       |
|     |                                                                                             | TCV_tsc, C_arfcnA,<br>C_arfcnA,<br>TSPX_HoRefA, 8,<br>C_not_report_otd,<br>C_synchronised,<br>RelTmdDif_omit,<br>TimingAdv_omit,<br>CphMod_04iei(TSPX_   |
|     |                                                                                             | CphAlgE)))                                                                                                                                               |
|     |                                                                                             | HndOvSnd(TCV_ch1,<br>HandOverCmd(TCV_                                                                                                                    |
|     |                                                                                             | Tchtype, TCV_slot,                                                                                                                                       |
|     |                                                                                             | TCV_tsc, C_arfcnAd,<br>C_arfcnAd,<br>TSPX_HoRefA, 8,<br>C_not_report_otd,<br>C_synchronised,<br>RelTmdDif_omit,<br>TimingAdv_omit,<br>CphMod_04iei(TSPX_ |
|     |                                                                                             | CphAlgE)))                                                                                                                                               |

**Detailed Comments:**

1. 1 cell, default parameters.
2. New ciphering key sequence number and new ciphering key L.
3. New SDCCH4 subchannel different from the one in use, start ciphering.
4. Load new key L, no ciphering.
5. New SDCCH4 subchannel different from the one in use, start ciphering.
6. New SDCCH4 subchannel different from the one in use, start ciphering.
7. New SDCCH4 subchannel different from the one in use, no ciphering.
8. To generate new ciphering key M.
9. New SDCCH4 subchannel different from the one in use, start ciphering.
10. New SDCCH4 subchannel different from the one in use, no ciphering, new channel not activated.
11. New SDCCH4 subchannel different from the one in use, no ciphering, new channel not activated.

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                       |     |                         |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| <b>Test Case Name:</b>      |       | TC_26_6_8_5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                       |     |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                       |     |                         |
| <b>Purpose:</b>             |       | 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'.                                                                                                                                           |                                                                                                                       |     |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                       |     |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CRef                                                                                                                  | V   | Comments                |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                       |     |                         |
| 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_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) |                                                                                                                       |     |                         |
| 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_UdatRqImmAs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 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?DL_DatInCphmCom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CphCom(CphModeCmp_02)                                                                                                 | (P) |                         |
| 11                          |       | LIDL_DatRqCphmCmd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CphCmd(TCV_ch, CphModeCmd_03)                                                                                         |     |                         |
| 12                          |       | L?DL_DatInCphmCom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CphCom(CphModeCmp_03)                                                                                                 | (P) |                         |
| 13                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                       |     |                         |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                       |     |                         |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                       |     |                         |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| <b>Test Case Name:</b>      |       | TC_26_6_11_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                       |     |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                       |     |                         |
| <b>Purpose:</b>             |       | 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.                                                                                                                                        |                                                                                                                       |     |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                       |     |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                                                                                  | V   | Comments                |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                       |     |                         |
| 2                           |       | +BasicServiceMO(TSPX_MOBscSvcB, TSPX_MOChRateB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                       |     |                         |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, 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) |                                                                                                                       |     | 1.                      |
| 4                           |       | +CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                       |     |                         |
| 5                           | body  | (TCV_Null := OO_AddPwrAmp())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                       |     |                         |
| 6                           |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                       |     |                         |
| 7                           |       | +subtree1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                       |     |                         |
| 8                           |       | (TCV_Null := OO_RemvPwrAmp())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                       |     |                         |
| 9                           |       | +subtree2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                       |     |                         |
|                             |       | <b>subtree1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                       |     |                         |
| 10                          |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ChReq(ChRequest_04)                                                                                                   |     |                         |
| 11                          |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                       |     | To match ChReq retrans. |
| 12                          |       | LIDL_UdatRqImmass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubC, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30))) |     |                         |
| 13                          |       | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CMSerReq(CMServic eReq_02)                                                                                            | (P) | 2.                      |
| 14                          |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                       |     | Restore Normal default  |
| 15                          |       | LIDL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CMSerAcp(TCV_ch, CMServic eReq_01)                                                                                    |     |                         |
| 16                          |       | +RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                       |     |                         |
| 17                          |       | LIDL_DatRqCallProc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CallProc(TCV_ch, TCV_CallProc)                                                                                        |     |                         |
| 18                          |       | LIDL_DatRqAlert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | AlertSnd(TCV_ch, Alerting_01(TCV_TI))                                                                                 |     |                         |
| 19                          |       | +continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                       |     |                         |
|                             |       | <b>continue</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                       |     |                         |
| 20                          |       | +AssCmdGen(TCV_cellid, TCV_ChRate, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                       |     |                         |
| 21                          |       | +AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                       |     |                         |
| 22                          |       | LIDL_DatRqConn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ConnSnd(TCV_chTch                                                                                                     |     |                         |

|                           |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |                         |
|---------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| 23                        | L?DL_DatInConnAck                                                                  | Connect_02(TCV_TI)<br>ConnAckRcv(Connect<br>Ack_02(TCV_TI0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                         |
|                           | <b>subtree2</b>                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |                         |
| 24                        | L?DL_UdatInCImChn                                                                  | ClassChgURcv(Class<br>Change_01)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (P) | 5.                      |
| 25                        | (TCV_Null := OO_AddPwrAmp())                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |                         |
| 26                        | L?DL_UdatInCImChn                                                                  | ClassChgURcv(Class<br>Change_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (P) | 6.                      |
| 27                        | +PostMainLinkRel(TCV_chTch)                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |                         |
| 28                        | +localtree3                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |                         |
|                           | <b>localtree3</b>                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |                         |
| 29                        | (TCV_Null := OO_RemvPwrAmp())                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |                         |
| 30                        | START T_dly(12000)                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |                         |
| 31                        | ?TIMEOUT T_dly                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |                         |
| 32                        | L!DL_UdatRqPg1Rq                                                                   | PgReq1(TCV_PgCh,<br>TCV_Pgg,<br>PgReqTp1_01)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                         |
| 33                        | L?DL_RaInChRq (TCV_Rr :=<br>DL_RaInChRq.msg.ecau_rrf, TCV_Fn :=<br>DL_RaInChRq.fn) | ChReq(ChRequest_1<br>7)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |                         |
| 34                        | ACTIVATE(OtherEventsFail_02)                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     | To match ChReq retrans. |
| 35                        | L!DL_UdatRqImm                                                                     | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubC<br>, TCV_slot, TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(30)))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |                         |
| 36                        | L?DL_EstInPgRes                                                                    | PagingRes(PagingRe<br>s_03)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (P) | 7.                      |
| 37                        | ACTIVATE(OtherEventsFail)                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     | Restore Normal default  |
| 38                        | +PostMainLinkRel(TCV_ch)                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |                         |
| <b>Detailed Comments:</b> |                                                                                    | <ol style="list-style-type: none"> <li>1. To setup a physical channel as BCCH, CCCH and SDCCH4.</li> <li>2. The power capability is the one with RF amplification.</li> <li>3. To setup a physical channel as full rate traffic channel for full rate bearer capability.</li> <li>4. To setup a physical channel as half rate traffic channel for half rate bearer capability.</li> <li>5. The power capability is the original one without RF amplification.</li> <li>6. The power capability is the one with RF amplification.</li> <li>7. The power capability is the original one without RF amplification.</li> </ol> |     |                         |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                       |     |                         |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| <b>Test Case Name:</b>      |       | TC_26_6_11_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                       |     |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                       |     |                         |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                       |     |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                       |     |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CRef                                                                                                                  | V   | 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_RaclnChRq (TCV_Rr := DL_RaclnChRq.msg.ecau_rrf, TCV_Fn := DL_RaclnChRq.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                           |       | LIDL_DatRqCImEnq START T_dly1(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ClassMkEnq_01(TCV_ch)                                                                                                 |     |                         |
| 10                          |       | L?DL_DatInCImChn CANCEL T_dly1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ClassChgDRcv(ClassChange_03)                                                                                          | (P) | 2.                      |
| 11                          |       | LIDL_DatRqLupAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LocAcp(TCV_ch, LocUpdtAcp_01(MiMsi_omit, C_MCC_1, C_PLMN_1, C_LAC_1))                                                 |     |                         |
| 12                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                       |     |                         |
| 13                          |       | ?TIMEOUT T_dly1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                       | (F) | 3.                      |
| 14                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                       |     |                         |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>To change the IMSI attach/detach flag to 1.</li> <li>The expected CLASSMARK CHANGE message received before 300 ms after the CLASSMARK ENQUIRY, pass.</li> <li>The expected message not received with 300 ms, fail.</li> </ol>                                                                                                                                                                                                                                                                                                   |                                                                                                                       |     |                         |



| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |     |                         |
|-----------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----|-------------------------|
| <b>Test Case Name:</b>      |       | TC_26_6_12_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                              |     |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                              |     |                         |
| <b>Purpose:</b>             |       | To verify that the MS is able to correctly release an SDCCH after having received a CHANNEL RELEASE message.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                              |     |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |     |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CRef                                                                         | V   | 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_NECl_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                           |       | +SDCCH8_A_1_nociph(TSPX_SDCCH8SubB, 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)                                                                                                                                                                                                                                                                                                                                                                                     |                                                                              |     |                         |
| 4                           | body  | +subtree1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                              |     |                         |
| 5                           |       | +subtree2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                              |     |                         |
|                             |       | <b>subtree1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |     |                         |
| 6                           |       | L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)                                       |     |                         |
| 7                           |       | L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ChReq(ChRequest_17)                                                          |     |                         |
| 8                           |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                              |     | To match ChReq retrans. |
| 9                           |       | +local_immass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                              |     |                         |
| 10                          |       | L?DL_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PagingRes(PagingRes_01)                                                      |     |                         |
| 11                          |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                              |     | Restore Normal default  |
| 12                          |       | L!DL_DatRqChRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ChRel(TCV_ch, ChRelease_01)                                                  |     |                         |
| 13                          |       | L?DL_Relln                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DLRelInd_01                                                                  |     |                         |
| 14                          |       | START T_dly(3000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                              |     |                         |
| 15                          |       | L?OTHERWISE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                              | (F) |                         |
| 16                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                              | (P) |                         |
|                             |       | <b>subtree2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |     |                         |
| 17                          |       | START T_dly(12000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |     |                         |
| 18                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                              |     |                         |
| 19                          |       | L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)                                       |     |                         |
| 20                          |       | L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ChReq(ChRequest_17)                                                          |     |                         |
| 21                          |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                              |     | To match ChReq retrans. |
| 22                          |       | +local_immass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                              |     |                         |
| 23                          |       | L?DL_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PagingRes(PagingRes_01)                                                      | (P) |                         |
| 24                          |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                              |     | Restore Normal default  |
| 25                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                              |     |                         |
|                             |       | <b>local_immass</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                              |     |                         |
| 26                          |       | L!DL_UdatRqImmass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ImmAss(TCV_agch, ImmAsgn_r02(TCV_Rr, TCV_Fn, TSPX_SDCCH8SubB, TSPX_TmSlTDef, |     |                         |

|                                                   |  |  |                                                       |  |  |
|---------------------------------------------------|--|--|-------------------------------------------------------|--|--|
|                                                   |  |  | TSPX_TscDef,<br>TimingAdv(30),<br>TCV_chdescr_arfcn)) |  |  |
| <b>Detailed Comments:</b> 1. No any L 2 messages. |  |  |                                                       |  |  |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        |     |                   |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-----|-------------------|
| <b>Test Case Name:</b>      |       | TC_26_6_12_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                        |     |                   |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |     |                   |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |     |                   |
| <b>Default:</b>             |       | OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                        |     |                   |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CRef                                   | V   | 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_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) |                                        |     |                   |
| 3                           |       | +SDCCH8_A_1_nociph(TSPX_SDCCH8SubG, 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)                                                                                                                                                                                                                                                                                                                                                                                      |                                        |     |                   |
| 4                           | body  | +subtree1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |     |                   |
| 5                           |       | +subtree2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |     |                   |
|                             |       | <b>subtree1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        |     |                   |
| 6                           |       | L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01) |     |                   |
| 7                           |       | L?DL_RaclnChRq (TCV_Rr := DL_RaclnChRq.msg.ecau_rrf, TCV_Fn := DL_RaclnChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ChReq(ChRequest_17)                    |     |                   |
| 8                           |       | +local_immass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                        |     |                   |
| 9                           |       | L?DL_EstlnPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | PagingRes(PagingRes_01)                |     |                   |
| 10                          |       | (TCV_Res := OM_NoUAforDISC(TCV_ch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |     |                   |
| 11                          |       | L!DL_DatRqChRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ChRel(TCV_ch, ChRelease_01)            |     |                   |
| 12                          |       | L?DL_RelIn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DLRelInd_01                            |     |                   |
| 13                          |       | L?DL_RelIn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DLRelInd_01                            |     |                   |
| 14                          |       | START T_dly(2000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                        |     |                   |
| 15                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                        |     |                   |
| 16                          |       | (TCV_Res := OM_ResumUAforDISC(TCV_ch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        |     |                   |
| 17                          |       | START T_dly(3000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                        |     |                   |
| 18                          |       | L?OTHERWISE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        | (F) |                   |
| 19                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                        | (P) |                   |
| 20                          |       | L!MDL_RelRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MDLRelReq(TCV_ch)                      |     | Local end release |
|                             |       | <b>subtree2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        |     |                   |
| 21                          |       | START T_dly(12000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                        |     |                   |
| 22                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                        |     |                   |
| 23                          |       | L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01) |     |                   |
| 24                          |       | L?DL_RaclnChRq (TCV_Rr := DL_RaclnChRq.msg.ecau_rrf, TCV_Fn := DL_RaclnChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ChReq(ChRequest_17)                    |     |                   |
| 25                          |       | +local_immass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                        |     |                   |
| 26                          |       | L?DL_EstlnPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | PagingRes(PagingRes_01)                | (P) |                   |
| 27                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                        |     |                   |
|                             |       | <b>local_immass</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |     |                   |
| 28                          |       | L!DL_UdatRqImmass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ImmAss(TCV_agch, ImmAsgn_r02(TCV_R     |     |                   |

|                           |  |                         |                                                                                                            |  |  |
|---------------------------|--|-------------------------|------------------------------------------------------------------------------------------------------------|--|--|
|                           |  |                         | r, TCV_Fn,<br>TSPX_SDCCH8SubG<br>, TSPX_TmSltDef,<br>TSPX_TscDef,<br>TimingAdv(30),<br>TCV_chdescr_arfcn)) |  |  |
| <b>Detailed Comments:</b> |  | 1. Use TSPX_SDCCH8SubG. |                                                                                                            |  |  |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                        |     |                         |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-----|-------------------------|
| <b>Test Case Name:</b>      |       | TC_26_6_12_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                        |     |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                        |     |                         |
| <b>Purpose:</b>             |       | To verify that the MS is able to correctly release a full-rate TCH after having received a CHANNEL RELEASE message.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                        |     |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                        |     |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CRef                                                                   | V   | 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_NECl_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_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                           | body  | +subtree1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                        |     |                         |
| 6                           |       | +subtree2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                        |     |                         |
|                             |       | <b>subtree1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                        |     |                         |
| 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                          |       | LIDL_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                          |       | LIDL_DatRqChRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ChRel(TCV_chTch, ChRelease_01)                                         |     |                         |
| 14                          |       | L?DL_Relln                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | DLRellnd_01                                                            |     |                         |
| 15                          |       | START T_dly(3000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                        |     |                         |
| 16                          |       | L?OTHERWISE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                        | (F) |                         |
| 17                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                        | (P) |                         |
|                             |       | <b>subtree2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                        |     |                         |
| 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                        |     | To match ChReq retrans. |
| 23                          |       | L!DL_UdatRqImmAss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ImmAss(TCV_agch, ImmAsgn_r13(TCV_Rr, TCV_Fn, TCV_chd1, TimingAdv(30))) |     |                         |
| 24                          |       | L?DL_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PagingRes(PagingRes_01)                                                | (P) |                         |
| 25                          |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                        |     | Restore Normal default  |

|                           |                                                                                     |  |  |  |
|---------------------------|-------------------------------------------------------------------------------------|--|--|--|
| 26                        | +PostMainLinkRel(TCV_chTch)                                                         |  |  |  |
|                           | <b>gsmOrDcs</b>                                                                     |  |  |  |
| 27                        | [TSPC_PGSM OR TSPC_EGSM]                                                            |  |  |  |
| 28                        | (TCV_chd1 := ChDescrp_nfh('00001'B,<br>TSPX_TmSlitDef, TSPX_TscDef, C_arfcn_tchA))  |  |  |  |
| 29                        | [TSPC_DCS]                                                                          |  |  |  |
| 30                        | (TCV_chd1 := ChDescrp_nfh('00001'B,<br>TSPX_TmSlitDef, TSPX_TscDef, C_arfcn_tchAd)) |  |  |  |
| <b>Detailed Comments:</b> |                                                                                     |  |  |  |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                        |     |                   |
|-----------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-----|-------------------|
| <b>Test Case Name:</b>      |       | TC_26_6_12_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                        |     |                   |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                        |     |                   |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                        |     |                   |
| <b>Default:</b>             |       | OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                        |     |                   |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Cref                                                                   | V   | Comments          |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                        |     |                   |
| 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_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) |                                                                        |     |                   |
| 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                           | body  | +subtree1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                        |     |                   |
| 6                           |       | +SDCCH8_A_1_nociph(TSPX_SDCCH8SubDef, C_ImmAs, TSPX_TmSlitDef, TSPX_TscDef, ChMod_sign, FreqTCH(C_arfcn_tchA), FreqTCH(C_arfcn_tchAd), TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                   |                                                                        |     |                   |
| 7                           |       | +subtree2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                        |     |                   |
|                             |       | <b>subtree1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                        |     |                   |
| 8                           |       | L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)                                 |     |                   |
| 9                           |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ChReq(ChRequest_17)                                                    |     |                   |
| 10                          |       | LIDL_UdatRqImmAs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ImmAss(TCV_agch, ImmAsgn_r13(TCV_Rr, TCV_Fn, TCV_chd1, TimingAdv(30))) |     |                   |
| 11                          |       | L?DL_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PagingRes(PagingRes_01)                                                |     |                   |
| 12                          |       | (TCV_Res := OM_NoUAforDISC(TCV_chTch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                        |     |                   |
| 13                          |       | L!DL_DatRqChRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ChRel(TCV_chTch, ChRelease_01)                                         |     |                   |
| 14                          |       | L?DL_RelIn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DLRelInd_01                                                            |     |                   |
| 15                          |       | L?DL_RelIn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DLRelInd_01                                                            |     |                   |
| 16                          |       | START T_dly(2000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                        |     |                   |
| 17                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                        |     |                   |
| 18                          |       | (TCV_Res := OM_ResumUAforDISC(TCV_chTch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                        |     |                   |
| 19                          |       | START T_dly(3000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                        |     |                   |
| 20                          |       | L?OTHERWISE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                        | (F) |                   |
| 21                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                        | (P) |                   |
| 22                          |       | LIMDL_RelRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MDLRelReq(TCV_ch)                                                      |     | local end release |
|                             |       | <b>subtree2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                        |     |                   |
| 23                          |       | START T_dly(12000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                        |     |                   |
| 24                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                        |     |                   |
| 25                          |       | LIDL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PgReq1(TCV_PgCh,                                                       |     |                   |

|    |                                                                                     |                                                                                                                                                        |     |
|----|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 26 | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)    | TCV_Pgg,<br>PgReqTp1_01)                                                                                                                               |     |
| 27 | +local_immass                                                                       | ChReq(ChRequest_1<br>7)                                                                                                                                |     |
| 28 | L?DL_EstInPgRes                                                                     | PagingRes(PagingRe<br>s_01)                                                                                                                            | (P) |
| 29 | +PostMainLinkRel(TCV_ch)                                                            |                                                                                                                                                        |     |
|    | <b>local_set_channel_descr</b>                                                      |                                                                                                                                                        |     |
| 30 | [TSPC_PGSM OR TSPC_EGSM]                                                            |                                                                                                                                                        |     |
| 31 | (TCV_chd1 := ChDescrp_nfh('00001'B,<br>TSPX_TmSlitDef, TSPX_TscDef, C_arfcn_tchA))  |                                                                                                                                                        |     |
| 32 | [TSPC_DCS]                                                                          |                                                                                                                                                        |     |
| 33 | (TCV_chd1 := ChDescrp_nfh('00001'B,<br>TSPX_TmSlitDef, TSPX_TscDef, C_arfcn_tchAd)) |                                                                                                                                                        |     |
|    | <b>local_immass</b>                                                                 |                                                                                                                                                        |     |
| 34 | L!DL_UdatRqImmass                                                                   | ImmAss(TCV_agch,<br>ImmAsgn_r02(TCV_R<br>r, TCV_Fn,<br>TSPX_SDCCH8SubD<br>ef, TSPX_TmSlitDef,<br>TSPX_TscDef,<br>TimingAdv(30),<br>TCV_chdescr_arfcn)) |     |

Detailed Comments:



| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                      |   |                         |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---|-------------------------|
| <b>Test Case Name:</b>      |       | TC_26_6_13_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                      |   |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                      |   |                         |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                            |                                                                                      |   |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                      |   |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CRef                                                                                 | V | 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_MaxPwrLvIG, C_MaxPwrLvID, 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                           |       | +SDCCH8_A_1_nociph(TSPX_SDCCH8SubA, C_Immass, TSPX_TmSltA, TSPX_TscA, ChMod_sign, FreqSDCCH8_rg1, FreqSDCCH8_rd1, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                      |   | 2.                      |
| 4                           |       | +local_set_channel_for_ass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                      |   | 3.                      |
| 5                           | body  | +ltree_body                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                      |   |                         |
| 6                           |       | <b>ltree_body</b><br>L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)                                               |   |                         |
| 7                           |       | L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ChReq(ChRequest_1 7)                                                                 |   |                         |
| 8                           |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                      |   | To match ChReq retrans. |
| 9                           |       | L!DL_UdatRqImmass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ImmAss(TCV_agch, ImmAsgn_r27(TCV_Rr, TCV_Fn, TSPX_TmSltA, TSPX_TscA, TimingAdv(30))) |   | 4.                      |
| 10                          |       | L?DL_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PagingRes(PagingRes_01)                                                              |   |                         |
| 11                          |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                      |   | Restore Normal default  |
| 12                          |       | (TCV_Fn := OM_ComingFn(TCV_ch), TCV_Null := OM_SendNextOn(TCV_ch, TCV_Fn), TCV_Strt := OC_StartTime(TCV_Fn, TSPX_Tm1, 1))                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                      |   | 5.                      |
| 13                          |       | (TCV_AssCmd := AsgnCmd_r14(TSPX_TmSltB, TSPX_TscB, TCV_Strt), TCV_Null := OM_FreqDef(TCV_Strt, MobilAlc_r06, TCV_WorkingCh, ChDescrip_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                          |       | <b>local_hoppingCHK</b><br>(TCV_Res := OM_FHCHK(TCV_WorkingCh, TCV_cchd1, MobilAlc_r06,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                      |   |                         |

|    |                                                                                                                                                                                 |  |     |    |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----|----|
| 18 | ChDescrp_fh(TSPX_Chtp1, TSPX_TmSlitB,<br>TSPX_TscB, INT_TO_BIT(TSPX_Mai02, 6),<br>INT_TO_BIT(TSPX_Hsn2, 6)), TSPX_Tm1, TCV_Fn))                                                 |  |     |    |
| 19 | [TCV_Res]                                                                                                                                                                       |  | (P) |    |
|    | [NOT TCV_Res]                                                                                                                                                                   |  | (F) |    |
|    | <b>local_set_channel_for_ass</b>                                                                                                                                                |  |     |    |
| 20 | (TCV_n := BIT_TO_INT(TSPX_Chtp1))                                                                                                                                               |  |     |    |
| 21 | [TCV_n = 1]                                                                                                                                                                     |  |     |    |
| 22 | +FullRateCh_A_1_nociph(C_Ass, TSPX_TmSlitB,<br>TSPX_TscB, ChMod_sign, Freq_rg2,<br>Freq_rd2, TimingAdv(30), C_BABR_0,<br>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_<br>Chtp1, 1), C_Ass, TSPX_TmSlitB, TSPX_TscB,<br>ChMod_sign, Freq_rg2, Freq_rd2, TimingAdv(30),<br>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_Cht<br>p1, 3), C_Ass, TSPX_TmSlitB, TSPX_TscB,<br>ChMod_r01, Freq_rg2, Freq_rd2, TimingAdv(30),<br>C_BABR_0, C_cch_1nonComb, C_BPM_3)      |  |     | 9. |
| 31 | (TCV_WorkingCh := TCV_ch)                                                                                                                                                       |  |     |    |
| 32 | +Set_CellChDescr(C_CellA)                                                                                                                                                       |  |     |    |

**Detailed Comments:**

1. To setup a physical channel as BCCH, CCCH.
2. To set a physical channel as hopping SDCCH8 channel, hopping parameters defined by PIXIT.
3. To setup the before time and after time channels for ASSIGNMENT COMMAND.
4. To assign the hopping SDCCH8 channel.
5. To calculate the STARTING TIME.
6. To check whether the after time frequency hopping is correct at the RF burst level.
7. If the selected channel type is TCH/F, setup a physical channel as full rate channel for before time.
8. If the selected channel type is TCH/H, setup a physical channel as half rate channel for before time.
9. If the selected channel type is SDCCH8, setup a physical channel as SDCCH8 channel for before time.

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                      |     |                         |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----|-------------------------|
| <b>Test Case Name:</b>      |       | TC_26_6_13_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                      |     |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                      |     |                         |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                   |                                                                                      |     |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                      |     |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CRef                                                                                 | V   | Comments                |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                      |     |                         |
| 2                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immss, 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_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                                                                      |     | 1.                      |
| 3                           |       | +SDCCH8_A_1_nociph(TSPX_SDCCH8SubB, C_Immss, TSPX_TmSltB, TSPX_TscB, ChMod_sign, FreqSDCCH8_rg2, FreqSDCCH8_rd2, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                      |     | 2.                      |
| 4                           |       | +local_set_channelForAss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                      |     | 3.                      |
| 5                           | body  | LIDL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)                                               |     |                         |
| 6                           |       | L?DL_RaclnChRq (TCV_Rr := DL_RaclnChRq.msg.ecau_rrf, TCV_Fn := DL_RaclnChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ChReq(ChRequest_17)                                                                  |     |                         |
| 7                           |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                      |     | To match ChReq retrans. |
| 8                           |       | LIDL_UdatRqImmss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ImmAss(TCV_agch, ImmAsgn_r28(TCV_Rr, TCV_Fn, TSPX_TmSltB, TSPX_TscB, TimingAdv(30))) |     | 4.                      |
| 9                           |       | L?DL_EstlnPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PagingRes(PagingRes_01)                                                              |     |                         |
| 10                          |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                      |     | Restore Normal default  |
| 11                          |       | (TCV_Fn := OM_ComingFn(TCV_ch), TCV_Null := OM_SendNextOn(TCV_ch, TCV_Fn))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                      |     | 5.                      |
| 12                          |       | (TCV_AssCmd := AsgnCmd_r15(TSPX_TmSltC, TSPX_TscC, TSPX_TmSltC, TSPX_TscC, OC_StartTime(TCV_Fn, 5, 1)))                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                      |     |                         |
| 13                          |       | +AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                      |     |                         |
| 14                          |       | +local_continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                      |     | 6.                      |
| 15                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                      |     |                         |
| 16                          |       | <b>local_continue</b><br>(TCV_Res := OM_FHCHK(TCV_chTch, TCV_cchd1, MobilAlic_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                          |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                      | (P) |                         |
| 18                          |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                      | (F) |                         |

|                           |                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |
|---------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 19                        | <b>local_set_channelForAss</b>                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |
| 20                        | (TCV_n := BIT_TO_INT(TSPX_Chtp2))             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |
| 21                        | [TCV_n = 1]                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |
| 22                        | +FullRateCh_A_1_nociph(C_Ass, TSPX_TmSlitC,   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 7. |
| 23                        | TSPX_TscC, ChMod_r02, Freq_rg4, Freq_rd4,     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |
| 24                        | TimingAdv(30), C_BABR_0, C_cch_1nonComb,      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |
| 25                        | C_BPM_3)                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |
| 26                        | +Set_CellChDescr(C_CellA)                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |
| 27                        | [(TCV_n = 2) OR (TCV_n = 3)]                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |
| 28                        | +HalfRateCh_A_1_nociph(OC_LeastBits(TSPX_     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 8. |
|                           | Chtp2, 1), C_Ass, TSPX_TmSlitC, TSPX_TscC,    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |
|                           | ChMod_r02, Freq_rg4, Freq_rd4, TimingAdv(30), |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |
|                           | C_BABR_0, C_cch_1nonComb, C_BPM_3)            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |
|                           | +Set_CellChDescr(C_CellA)                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |
|                           | [(TCV_n >= 8) AND (TCV_n <= 15)]              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |
|                           | +SDCCH8_A_2_nociph(OC_LeastBits(TSPX_Cht      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 9. |
|                           | p2, 3), C_Ass, TSPX_TmSlitC, TSPX_TscC,       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |
|                           | ChMod_r02, Freq_rg4, Freq_rd4, TimingAdv(30), |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |
|                           | C_BABR_0, C_cch_1nonComb, C_BPM_3)            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |
|                           | +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 a physical channel as hopping SDCCH8 channel, hopping parameters defined by PIXIT.</li> <li>3. To setup the after time channels for ASSIGNMENT COMMAND.</li> <li>4. To assign the hopping SDCCH8 channel.</li> <li>5. To calculate the STARTING TIME.</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 after time.</li> <li>8. If the selected channel type is TCH/H, setup a physical channel as half rate channel for after time.</li> <li>9. If the selected channel type is SDCCH8, setup a physical channel as SDCCH8 channel for after time.</li> </ol> |    |

| <b>Test Case Dynamic Behaviour</b> |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                           |   |                         |
|------------------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---|-------------------------|
| <b>Test Case Name:</b>             |       | TC_26_6_13_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                           |   |                         |
| <b>Group:</b>                      |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                           |   |                         |
| <b>Purpose:</b>                    |       | 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 FREQUENCY REDEFINITION message and eventually starts using the frequency parameters at the time indicated in the FREQUENCY REDEFINITION message.     |                                                                                           |   |                         |
| <b>Default:</b>                    |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                           |   |                         |
| Nr                                 | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CRef                                                                                      | V | 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_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_RANDDf, 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_RaInChRq(TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ChReq(ChRequest_17)                                                                       |   |                         |
| 6                                  |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                           |   | To match ChReq retrans. |
| 7                                  |       | LIDL_UdatRqImm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                           |   |                         |
| 11                                 |       | <b>localtree</b><br>(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, MobilAllc_r11, TCV_WorkingCh, ChDescrp_fh(TSPX_Chtp3, TSPX_TmSltd, TSPX_TscD, INT_TO_BIT(TSPX_Maio7, 6), INT_TO_BIT(TSPX_Hsn6, 6)), TCV_cchd1, TCV_Fn), TCV_Null := OM_SendNextOn(TCV_WorkingCh, TCV_Fn))                                                                                                                 |                                                                                           |   | 3.                      |
| 12                                 |       | LIDL_DatRqFrqre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FrqRedfSnd(TCV_WorkingCh, FrqRedef_01(TCV_chd1, MobilAllc_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 | <b>ltree_check</b>                                                                                                                                                                            |  |  |     |
| 18 | [TCV_WorkingCh = TCV_ch]                                                                                                                                                                      |  |  |     |
| 19 | (TCV_Res := OM_FHCHK(TCV_WorkingCh,<br>TCV_cchd1, MobilAlc_r11,<br>ChDescrp_fh(TSPX_Chtp4, TSPX_TmSltd,<br>TSPX_TscD, INT_TO_BIT(TSPX_Maio7, 6),<br>INT_TO_BIT(TSPX_Hsn6, 6)), 5000, TCV_Fn)) |  |  | (P) |
| 20 | [TCV_Res]                                                                                                                                                                                     |  |  | (F) |
| 21 | <b>local_channel_setup</b>                                                                                                                                                                    |  |  |     |
| 22 | (TCV_n := BIT_TO_INT(TSPX_Chtp3))                                                                                                                                                             |  |  |     |
| 23 | [TCV_n = 1]<br>+FullRateCh_A_1_nociph(C_Immass,<br>TSPX_TmSltd, TSPX_TscD, ChMod_sign,<br>Freq_rg5, Freq_rd5, TimingAdv(30), C_BABR_0,<br>C_cch_1nonComb, C_BPM_3)                            |  |  | 7.  |
| 24 | (TCV_WorkingCh := TCV_chTch)                                                                                                                                                                  |  |  |     |
| 25 | +Set_CellChDescr(C_CellA)                                                                                                                                                                     |  |  |     |
| 26 | [(TCV_n = 2) OR (TCV_n = 3)]                                                                                                                                                                  |  |  |     |
| 27 | +HalfRateCh_A_1_nociph(OC_LeastBits(TSPX_<br>Chtp3, 1), C_Immass, TSPX_TmSltd,<br>TSPX_TscD, ChMod_sign, Freq_rg5, Freq_rd5,<br>TimingAdv(30), C_BABR_0, C_cch_1nonComb,<br>C_BPM_3)          |  |  | 8.  |
| 28 | (TCV_WorkingCh := TCV_chTch)                                                                                                                                                                  |  |  |     |
| 29 | +Set_CellChDescr(C_CellA)                                                                                                                                                                     |  |  |     |
| 30 | [(TCV_n >= 8) AND (TCV_n <= 15)]                                                                                                                                                              |  |  |     |
| 31 | +SDCCH8_A_1_nociph(OC_LeastBits(TSPX_Cht<br>p3, 3), C_Immass, TSPX_TmSltd, TSPX_TscD,<br>ChMod_sign, Freq_rg5, Freq_rd5, TimingAdv(30),<br>C_BABR_0, C_cch_1nonComb, C_BPM_3)                 |  |  | 9.  |
| 32 | (TCV_WorkingCh := TCV_ch)                                                                                                                                                                     |  |  |     |
| 33 | +Set_CellChDescr(C_CellA)                                                                                                                                                                     |  |  |     |

**Detailed Comments:**

1. To setup a physical channel as BCCH, CCCH.
2. To set two physical channels, one as hopping channel for immediate assignment another one as hopping channel for after time channel, parameters defined by PIXIT.
3. To calculate the starting time for frequency redefinition.
4. To send FREQUENCY REDIFINITION message.
5. To calculate the starting time and send the ASSIGNMENT COMMAND on special frame TCV\_Fn. The assigned channel not activated in the tester.
6. To check whether the after time frequency hopping is correct at the RF burst level.
7. If the selected channel type is TCH/F, setup a physical channel as full rate channel for immediate assignment.
8. If the selected channel type is TCH/H, setup a physical channel as half rate channel for immediate assignment.
9. If the selected channel type is SDCCH8, setup a physical channel as SDCCH8 channel for immediate assignment.

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                            |   |                         |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---|-------------------------|
| <b>Test Case Name:</b>      |       | TC_26_6_13_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                            |   |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                            |   |                         |
| <b>Purpose:</b>             |       | 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.                                                                                                                                   |                                                                                            |   |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                            |   |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                                                       | V | 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_NECl_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_noReestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                                                                            |   | 1.                      |
| 3                           |       | +local_channel_setup                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                            |   | 2.                      |
| 4                           | body  | LIDL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)                                                     |   |                         |
| 5                           |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ChReq(ChRequest_17)                                                                        |   |                         |
| 6                           |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                            |   | To match ChReq retrans. |
| 7                           |       | LIDL_UdatRqImmAss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ImmAss(TCV_agch, ImmAsgn_r30(TCV_Rr, TCV_Fn, TSPX_TmSlfF, TSPX_TscF, TimingAdv(30)))       |   |                         |
| 8                           |       | L?DL_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PagingRes(PagingRes_01)                                                                    |   |                         |
| 9                           |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                            |   | Restore Normal default  |
| 10                          |       | +local_continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                            |   |                         |
| 11                          |       | <b>local_continue</b><br>(TCV_Fn := OM_ComingFn(TCV_WorkingCh), TCV_Strt := OC_StartTime(TCV_Fn, 214, 0), TCV_chd1 := ChDescrp_fh(TSPX_Chtp5, TSPX_TmSlfF, TSPX_TscF, INT_TO_BIT(TSPX_Maio11, 6), INT_TO_BIT(TSPX_Hsn10, 6)), TCV_Null := OM_FreqDef(TCV_Strt, MobilAllc_r15, TCV_WorkingCh, ChDescrp_fh(TSPX_Chtp5, TSPX_TmSlfF, TSPX_TscF, INT_TO_BIT(TSPX_Maio11, 6), INT_TO_BIT(TSPX_Hsn10, 6))), TCV_cchd1, TCV_Fn), TCV_Null := OM_SendNextOn(TCV_WorkingCh, TCV_Fn))                                                                                                           |                                                                                            |   |                         |
| 12                          |       | LIDL_DatRqFrqre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FrqRedfSnd(TCV_WorkingCh, FreqRedef_01(TCV_chd1, MobilAllc_r15, TCV_Strt, CellChDes_omit)) |   | 4.                      |
| 13                          |       | (TCV_AssCmd := AsgnCmd_r17(TSPX_TmSlfF, TSPX_TscF, OC_StartTime(TCV_Fn, 5000, 1)))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                            |   |                         |
| 14                          |       | +AssCh_failure(TCV_WorkingCh, TCV_AssCmd, TRUE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                            |   | 5.                      |
| 15                          |       | +PostMainLinkRel(TCV_WorkingCh)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                            |   |                         |
| 16                          |       | <b>local_channel_setup</b><br>(TCV_n := BIT_TO_INT(TSPX_Chtp5))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                            |   |                         |

|    |                                                                                                                                                                                      |  |    |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|
| 17 | [TCV_n = 1]                                                                                                                                                                          |  |    |
| 18 | +FullRateCh_A_1_nociph(C_Immass,<br>TSPX_TmSlfF, TSPX_TscF, ChMod_sign,<br>Freq_rg7, Freq_rd7, TimingAdv(30), C_BABR_0,<br>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_<br>Chtp5, 1), C_Immass, TSPX_TmSlfF,<br>TSPX_TscF, ChMod_sign, Freq_rg7, Freq_rd7,<br>TimingAdv(30), C_BABR_0, C_cch_1nonComb,<br>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_Cht<br>p5, 3), C_Immass, TSPX_TmSlfF, TSPX_TscF,<br>ChMod_sign, Freq_rg7, Freq_rd7, TimingAdv(30),<br>C_BABR_0, C_cch_1nonComb, C_BPM_3)        |  | 9. |
| 27 | (TCV_WorkingCh := TCV_ch)                                                                                                                                                            |  |    |
| 28 | +Set_CellChDescr(C_CellA)                                                                                                                                                            |  |    |

**Detailed Comments:**

1. To setup a physical channel as BCCH, CCCH.
2. To set two physical channels, one as hopping channel for immediate assignment another one as hopping channel for after time channel, parameters defined by PIXIT.
3. To calculate the starting time for frequency redefinition.
4. To send FREQUENCY REDIFINITION message.
5. To calculate the starting time and send the ASSIGNMENT COMMAND on special frame TCV\_Fn. The assigned channel not activated in the tester.
6. 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 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                       |   |                         |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---|-------------------------|
| <b>Test Case Name:</b>      |       | TC_26_6_13_5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |   |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                       |   |                         |
| <b>Purpose:</b>             |       | 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 time indicated in the message.                                                                                                                                                                                                   |                                                                                       |   |                         |
| <b>Default:</b>             |       | OtherEventsFail, RcvHdOvAcc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                       |   |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                                                  | V | 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_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                                                                       |   | 1.                      |
| 3                           |       | +StartCellB(C_E_suitable, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Immass, TSPX_TmSlitDef, 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_noReestablishment, C_BCC, C_NCC)                                                                                                                                                                                                                                       |                                                                                       |   | 2.                      |
| 4                           |       | +local_channel_setup                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |   | 3.                      |
| 5                           | body  | L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)                                                |   |                         |
| 6                           |       | L?DL_RaclnChRq (TCV_Rr := DL_RaclnChRq.msg.ecau_rrf, TCV_Fn := DL_RaclnChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ChReq(ChRequest_17)                                                                   |   |                         |
| 7                           |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |   | To match ChReq retrans. |
| 8                           |       | L!DL_UdatRqImmass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ImmAss(TCV_agch, ImmAsgn_r31(TCV_Rr, TCV_Fn, TSPX_TmSlitG, TSPX_TscG, TimingAdv(30))) |   |                         |
| 9                           |       | L?DL_EstlnPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PagingRes(PagingRes_01)                                                               |   |                         |
| 10                          |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                       |   | Restore Normal default  |
| 11                          |       | +localcontinue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                       |   |                         |
| 12                          |       | <b>localcontinue</b><br>(TCV_Null := OM_StartMsrReport(TCV_sacch8))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                       |   |                         |
| 13                          |       | L?DL_UdatlnMsrRpt (TCV_MsrRes := DL_UdatlnMsrRpt.msg.msrr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MsrRept(MsrReport_02)                                                                 |   |                         |
| 14                          |       | (TCV_Null := OM_StopMsrReport(TCV_sacch8), TCV_Fn := OM_ComingFn(TCV_ch), TCV_Strt := OC_StartTime(TCV_Fn, TSPX_Tm2, 1), TCV_Null := OM_SendNextOn(TCV_ch, TCV_Fn), TCV_Null := OM_FreqDef(TCV_Strt, MobilAlc_r18, TCV_chTch, ChDescrp_fh(TSPX_Chtp7, TSPX_TmSlitDef, TSPX_TscDef, INT_TO_BIT(TSPX_Maio15, 6), INT_TO_BIT(TSPX_Hsn15, 6)), TCV_cchd1, TCV_Fn))                                                                                                                                                                                                                        |                                                                                       |   | 4.                      |
| 15                          |       | +local_sendHoCMD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                       |   |                         |
| 16                          |       | L?DL_RaclnHoacc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | HndOvAccRcv(TCV_chTch, HandOverAcc_01)                                                |   |                         |
| 17                          |       | L!DL_DatRqPhyinfo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PhyInfo_01(TCV_chTch, TimingAdv(30))                                                  |   |                         |

|    |                                                                                                                                                                                                                                     |                                                                         |     |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-----|
| 18 | L?DL_EstIn                                                                                                                                                                                                                          | DLEstIn(TCV_chTch<br>)                                                  |     |
| 19 | L?DL_DatInHoCom                                                                                                                                                                                                                     | HndOvCmpRcv(TCV_chTch,<br>HandOverCmp_01)                               |     |
| 20 | +ltree_Hoppingcheck                                                                                                                                                                                                                 |                                                                         |     |
| 21 | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                         |                                                                         |     |
| 22 | <b>ltree_Hoppingcheck</b><br>(TCV_Res := OM_FHCHK(TCV_chTch, TCV_cchd1,<br>MoblAlc_r18, ChDescrp_fh(TSPX_Chtp7,<br>TSPX_TmSlitDef, TSPX_TscDef,<br>INT_TO_BIT(TSPX_Maio15, 6),<br>INT_TO_BIT(TSPX_Hsn15, 6)), TSPX_Tm2,<br>TCV_Fn)) |                                                                         |     |
| 23 | [TCV_Res]                                                                                                                                                                                                                           |                                                                         | (P) |
| 24 | [NOT TCV_Res]                                                                                                                                                                                                                       |                                                                         | (F) |
| 25 | <b>local_sendHoCMD</b><br>[TSPC_PGSM OR TSPC_EGSM]                                                                                                                                                                                  |                                                                         |     |
| 26 | L!DL_DatRqHoCmd (DL_DatRqHoCmd.msg.strt :=<br>TCV_Strt)                                                                                                                                                                             | HndOvSnd(TCV_ch,<br>HandOverCmd_32(T<br>SPX_TmSlitDef,<br>TSPX_TscDef)) |     |
| 27 | [TSPC_DCS]                                                                                                                                                                                                                          |                                                                         |     |
| 28 | L!DL_DatRqHoCmd (DL_DatRqHoCmd.msg.strt :=<br>TCV_Strt)                                                                                                                                                                             | HndOvSnd(TCV_ch,<br>HandOverCmd_33(T<br>SPX_TmSlitDef,<br>TSPX_TscDef)) |     |
| 29 | <b>local_channel_setup</b><br>(TCV_n := BIT_TO_INT(TSPX_Chtp7))                                                                                                                                                                     |                                                                         |     |
| 30 | +SDCCH8_A_1_nociph(TSPX_SDCCH8SubB,<br>C_Immss, TSPX_TmSlitG, TSPX_TscG,<br>ChMod_sign, Freq_rg9, Freq_rd9, TimingAdv(30),<br>C_BABR_0, C_cch_1nonComb, C_BPM_3)                                                                    |                                                                         |     |
| 31 | [TCV_n = 1]                                                                                                                                                                                                                         |                                                                         |     |
| 32 | +FullRateCh_B_1_nociph(C_Asynho,<br>TSPX_TmSlitDef, TSPX_TscDef, ChMod_r03,<br>Freq_rg11, Freq_rd11, TimingAdv(30),<br>C_BABR_0, C_cch_1nonComb, C_BPM_3)                                                                           |                                                                         | 5.  |
| 33 | +Set_CellChDescr(C_CellB)                                                                                                                                                                                                           |                                                                         |     |
| 34 | [(TCV_n = 2) OR (TCV_n = 3)]                                                                                                                                                                                                        |                                                                         |     |
| 35 | +HalfRateCh_B_1_nociph(OC_LeastBits(TSPX_C<br>htp7, 1), C_Asynho, TSPX_TmSlitDef,<br>TSPX_TscDef, ChMod_r03, Freq_rg11,<br>Freq_rd11, TimingAdv(30), C_BABR_0,<br>C_cch_1nonComb, C_BPM_3)                                          |                                                                         | 6.  |
| 36 | +Set_CellChDescr(C_CellB)                                                                                                                                                                                                           |                                                                         |     |
| 37 | [(TCV_n >= 8) AND (TCV_n <= 15)]                                                                                                                                                                                                    |                                                                         |     |
| 38 | +SDCCH8_B_1_nociph(OC_LeastBits(TSPX_C<br>htp7, 3), C_Asynho, TSPX_TmSlitDef,<br>TSPX_TscDef, ChMod_sign, Freq_rg11,<br>Freq_rd11, TimingAdv(30), C_BABR_0,<br>C_cch_1nonComb, C_BPM_3)                                             |                                                                         | 7.  |
| 39 | +Set_CellChDescr(C_CellB)                                                                                                                                                                                                           |                                                                         |     |

**Detailed Comments:**

1. To setup a physical channel as BCCH, CCCH for cell A.
2. To setup a physical channel as BCCH, CCCH for cell B.
3. To setup a physical channel as SDCCH8 in cell A and setup 2 physical channels as hopping channels in cell B.
4. To get the future frame number for sending HANOVER 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 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                          |   |                         |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---|-------------------------|
| <b>Test Case Name:</b>      |       | TC_26_6_13_6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                          |   |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                          |   |                         |
| <b>Purpose:</b>             |       | To verify that the MS, after receiving a HANOVER 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.                                                                                                                                                                                                                                                                                                |                                                                                          |   |                         |
| <b>Default:</b>             |       | OtherEventsFail, RcvHdOvAcc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                          |   |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CRef                                                                                     | V | 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_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_arfcnA, C_arfcnAd_4, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                                                                          |   | 1.                      |
| 3                           |       | +StartCellB(C_E_suitable, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Immass, TSPX_TmSltB, 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, C_NCC)                                                                                                                                                                                                                                            |                                                                                          |   | 2.                      |
| 4                           |       | +local_config_channel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                          |   | 3.                      |
| 5                           | body  | L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)                                                   |   |                         |
| 6                           |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ChReq(ChRequest_17)                                                                      |   |                         |
| 7                           |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                          |   | To match ChReq retrans. |
| 8                           |       | L!DL_UdatRqImmass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ImmAss(TCV_agch, ImmAsgn_r32(TCV_Rr, TCV_Fn, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(30))) |   |                         |
| 9                           |       | +local_continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                          |   |                         |
|                             |       | <b>local_continue</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                          |   |                         |
| 10                          |       | L?DL_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PagingRes(PagingRes_01)                                                                  |   |                         |
| 11                          |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                          |   | Restore Normal default  |
| 12                          |       | (TCV_Fn := OM_ComingFn(TCV_ch), TCV_Strt := OC_StartTime(TCV_Fn, 5, 1), TCV_Null := OM_SendNextOn(TCV_ch, TCV_Fn))                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                          |   | 4.                      |
| 13                          |       | +local_sendHoCMD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                          |   |                         |
| 14                          |       | L?DL_RaInHoacc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | HndOvAccRcv(TCV_chTch, HandOverAcc_01)                                                   |   |                         |
| 15                          |       | L!DL_DatRqPhyinfo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | PhyInfo_01(TCV_chTch, TimingAdv(30))                                                     |   |                         |
| 16                          |       | L?DL_EstIn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | DLEstInd(TCV_chTch)                                                                      |   |                         |
| 17                          |       | L?DL_DatInHoCom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | HndOvCmpRcv(TCV_chTch, HandOverCmp_01)                                                   |   |                         |
| 18                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                          |   |                         |
|                             |       | <b>local_sendHoCMD</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                          |   |                         |
| 19                          |       | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                          |   |                         |
| 20                          |       | L!DL_DatRqHoCmd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | HndOvSnd(TCV_ch,                                                                         |   |                         |

|    |                                                                                                                                                                          |                                                                    |    |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----|
| 21 | [TSPC_DCS]                                                                                                                                                               | HandOverCmd_34(TSPX_TmSltB, TSPX_TscB, TCV_Strt)                   |    |
| 22 | L!DL_DatRqHoCmd                                                                                                                                                          | HndOvSnd(TCV_ch, HandOverCmd_35(TSPX_TmSltB, TSPX_TscB, TCV_Strt)) |    |
| 23 | <b>local_config_channel</b><br>(TCV_n := BIT_TO_INT(TSPX_Chtp8))                                                                                                         |                                                                    |    |
| 24 | +SDCCH8_A_1_nociph(TSPX_SDCCH8SubC, C_Immass, TSPX_TmSltDef, TSPX_TscDef, ChMod_sign, Freq_rg12, Freq_rd12, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)            |                                                                    |    |
| 25 | [TCV_n = 1]                                                                                                                                                              |                                                                    |    |
| 26 | +FullRateCh_B_1_nociph(C_Asynho, TSPX_TmSltB, TSPX_TscB, ChMod_r04, Freq_rg13, Freq_rd13, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)                              |                                                                    | 5. |
| 27 | [(TCV_n = 2) OR (TCV_n = 3)]                                                                                                                                             |                                                                    |    |
| 28 | +HalfRateCh_B_1_nociph(OC_LeastBits(TSPX_Chtp8, 1), C_Asynho, TSPX_TmSltB, TSPX_TscB, ChMod_r04, Freq_rg13, Freq_rd13, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3) |                                                                    | 6. |
| 29 | [(TCV_n >= 8) AND (TCV_n <= 15)]                                                                                                                                         |                                                                    |    |
| 30 | +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. |

**Detailed Comments:**

1. To setup a physical channel as BCCH, CCCH for cell A.
2. To setup a physical channel as BCCH, CCCH for cell B.
3. To setup a physical channel as SDCCH8 in cell A and setup a physical channel as hopping channels in cell B.
4. To get the future frame number for sending HANDOVER COMMAND and calculate starting time.
5. If the required channel is full rate channel, setup the after time full rate hopping channel.
6. If the required channel is half rate channel, setup the after time half rate hopping channel.
7. If the required channel is SDCCH8 channel, setup the after time SDCCH8 hopping channel.

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                       |   |                         |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---|-------------------------|
| <b>Test Case Name:</b>      |       | TC_26_6_13_7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                       |   |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                       |   |                         |
| <b>Purpose:</b>             |       | 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.                        |                                                                                       |   |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                       |   |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CRef                                                                                  | V | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                       |   | 3.                      |
| 4                           |       | +StartCellB(C_E_suitable, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_ImmAss, TSPX_TmSlitD, 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_noReestablishment, C_BCC, C_NCC)                                                                                                                                                                                                                                          |                                                                                       |   | 2.                      |
| 5                           | body  | LIDL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)                                                |   |                         |
| 6                           |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ChReq(ChRequest_17)                                                                   |   |                         |
| 7                           |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                       |   | To match ChReq retrans. |
| 8                           |       | LIDL_UdatRqImmAss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ImmAss(TCV_agch, ImmAsgn_r33(TCV_Rr, TCV_Fn, TSPX_TmSlitC, TSPX_TscC, TimingAdv(30))) |   |                         |
| 9                           |       | L?DL_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PagingRes(PagingRes_01)                                                               |   |                         |
| 10                          |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                       |   | Restore Normal default  |
| 11                          |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                       |   |                         |
| 12                          |       | <b>localtree</b><br>(TCV_Fn := OM_ComingFn(TCV_WorkingCh), TCV_Strt := OC_StartTime(TCV_Fn, 5000, 0), TCV_chd1 := ChDescrp_fh(TSPX_Chtp9, TSPX_TmSlitC, TSPX_TscC, INT_TO_BIT(TSPX_Maio21, 6), INT_TO_BIT(TSPX_Hsn20, 6)), TCV_Null := OM_FreqDef(TCV_Strt, MobilAllc_r25, TCV_WorkingCh, ChDescrp_fh(TSPX_Chtp9, TSPX_TmSlitC, TSPX_TscC, INT_TO_BIT(TSPX_Maio21, 6), INT_TO_BIT(TSPX_Hsn20, 6)), TCV_cchd1, TCV_Fn), TCV_Null := OM_SendNextOn(TCV_WorkingCh, TCV_Fn))                                                                                                             |                                                                                       |   | 4.                      |
| 13                          |       | LIDL_DatRqFrqre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FrqRedfSnd(TCV_WorkingCh, FrqRedef_01(TCV_cchd1, MobilAllc_r25,                       |   | 5.                      |

|    |                                                                                                                                                                                                                             |                                                                                     |     |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|
| 14 | (TCV_Strt := OC_StartTime(TCV_Fn, 4000, 1))                                                                                                                                                                                 | TCV_Strt,<br>CellChDes_omit)                                                        | 6.  |
| 15 | +local_handoverCMD                                                                                                                                                                                                          |                                                                                     |     |
| 16 | L?DL_EstIn                                                                                                                                                                                                                  | DLEstInd(TCV_WorkingCh)                                                             |     |
| 17 | L?DL_DatInHofI                                                                                                                                                                                                              | HndOvFIRcv(TCV_WorkingCh,<br>HandOvFail_02)                                         |     |
| 18 | +local_HoppingCHK                                                                                                                                                                                                           |                                                                                     | 7.  |
| 19 | +PostMainLinkRel(TCV_WorkingCh)                                                                                                                                                                                             |                                                                                     |     |
| 20 | <b>local_HoppingCHK</b><br>(TCV_Res := OM_FHCHK(TCV_WorkingCh,<br>TCV_cchd1, MobilAlc_r25,<br>ChDescrp_fh(TSPX_Chtp9, TSPX_TmSlitC,<br>TSPX_TscC, INT_TO_BIT(TSPX_Maio21, 6),<br>INT_TO_BIT(TSPX_Hsn20, 6)), 5000, TCV_Fn)) |                                                                                     |     |
| 21 | [TCV_Res]                                                                                                                                                                                                                   |                                                                                     | (P) |
| 22 | [NOT TCV_Res]                                                                                                                                                                                                               |                                                                                     | (F) |
| 23 | <b>local_handoverCMD</b><br>[TSPC_PGSM OR TSPC_EGSM]                                                                                                                                                                        |                                                                                     |     |
| 24 | L!DL_DatRqHoCmd                                                                                                                                                                                                             | HndOvSnd(TCV_WorkingCh,<br>HandOverCmd_36(TSPX_TmSlitD,<br>TSPX_TscD,<br>TCV_Strt)) |     |
| 25 | [TSPC_DCS]                                                                                                                                                                                                                  |                                                                                     |     |
| 26 | L!DL_DatRqHoCmd                                                                                                                                                                                                             | HndOvSnd(TCV_WorkingCh,<br>HandOverCmd_37(TSPX_TmSlitD,<br>TSPX_TscD,<br>TCV_Strt)) |     |
| 27 | <b>local_channel_setup</b><br>(TCV_n := BIT_TO_INT(TSPX_Chtp9))                                                                                                                                                             |                                                                                     |     |
| 28 | [TCV_n = 1]                                                                                                                                                                                                                 |                                                                                     |     |
| 29 | +FullRateCh_A_1_nociph(C_Immass,<br>TSPX_TmSlitC, TSPX_TscC, ChMod_sign,<br>Freq_rg14, Freq_rd14, TimingAdv(30),<br>C_BABR_0, C_cch_1nonComb, C_BPM_3)                                                                      |                                                                                     | 7.  |
| 30 | (TCV_WorkingCh := TCV_chTch)                                                                                                                                                                                                |                                                                                     |     |
| 31 | +Set_CellChDescr(C_CellA)                                                                                                                                                                                                   |                                                                                     |     |
| 32 | [(TCV_n = 2) OR (TCV_n = 3)]                                                                                                                                                                                                |                                                                                     |     |
| 33 | +HalfRateCh_A_1_nociph(OC_LeastBits(TSPX_Chtp9, 1), C_Immass, TSPX_TmSlitC,<br>TSPX_TscC, ChMod_sign, Freq_rg14, Freq_rd14,<br>TimingAdv(30), C_BABR_0, C_cch_1nonComb,<br>C_BPM_3)                                         |                                                                                     | 8.  |
| 34 | (TCV_WorkingCh := TCV_chTch)                                                                                                                                                                                                |                                                                                     |     |
| 35 | +Set_CellChDescr(C_CellA)                                                                                                                                                                                                   |                                                                                     |     |
| 36 | [(TCV_n >= 8) AND (TCV_n <= 15)]                                                                                                                                                                                            |                                                                                     |     |
| 37 | +SDCCH8_A_1_nociph(OC_LeastBits(TSPX_Chtp9, 3), C_Immass, TSPX_TmSlitC, TSPX_TscC,<br>ChMod_sign, Freq_rg14, Freq_rd14,<br>TimingAdv(30), C_BABR_0, C_cch_1nonComb,<br>C_BPM_3)                                             |                                                                                     | 9.  |
| 38 | (TCV_WorkingCh := TCV_ch)                                                                                                                                                                                                   |                                                                                     |     |
| 39 | +Set_CellChDescr(C_CellA)                                                                                                                                                                                                   |                                                                                     |     |

**Detailed Comments:**

1. To setup a physical channel as BCCH, CCCH.
2. To set a physical channel as BCCH, CCCH for Cell B.
3. To setup a physical channel for immediate assignment.
4. To calculate the starting time for frequency redefinition.
5. To send FREQUENCY REDIFINITION message.
6. To calculate the starting time and send the HANDOVER COMMAND on special frame TCV\_Fn.

The assigned channel not activated in the tester.

7. To check whether the after time frequency hopping is correct at the RF burst level.
8. If the selected channel type is TCH/F, setup a physical channel as full rate channel for immediate assignment.
9. If the selected channel type is TCH/H, setup a physical channel as half rate channel for immediate assignment.
10. If the selected channel type is SDCCH8, setup a physical channel as SDCCH8 channel for immediate assignment.

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                       |   |                         |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---|-------------------------|
| <b>Test Case Name:</b>      |       | TC_26_6_13_8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                       |   |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                       |   |                         |
| <b>Purpose:</b>             |       | 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.                                                                                                                               |                                                                                       |   |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                       |   |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CRef                                                                                  | V | Comments                |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                       |   |                         |
| 2                           |       | +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(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) |                                                                                       |   | 1.                      |
| 3                           |       | +local_channel_setup                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                       |   | 3.                      |
| 4                           |       | +StartCellB(C_E_suitable, C_BCCHcarrierB_ho, C_BCCHcarrierB_hod, C_Imm, TSPX_TmSlitE, 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, C_NCC)                                                                                                                                                                                                                                            |                                                                                       |   | 2.                      |
| 5                           | body  | L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)                                                |   |                         |
| 6                           |       | L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ChReq(ChRequest_17)                                                                   |   |                         |
| 7                           |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                       |   | To match ChReq retrans. |
| 8                           |       | L!DL_UdatRqImm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ImmAss(TCV_agch, ImmAsgn_r34(TCV_Rr, TCV_Fn, TSPX_TmSlitD, TSPX_TscD, TimingAdv(30))) |   |                         |
| 9                           |       | L?DL_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | PagingRes(PagingRes_01)                                                               |   |                         |
| 10                          |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |   | Restore Normal default  |
| 11                          |       | +local_continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                       |   |                         |
| 12                          |       | <b>local_continue</b><br>(TCV_Fn := OM_ComingFn(TCV_WorkingCh), TCV_Strt := OC_StartTime(TCV_Fn, 265, 0), TCV_chd1 := ChDescrp_fh(TSPX_Chtp11, TSPX_TmSlitD, TSPX_TscD, INT_TO_BIT(TSPX_Maio25, 6), INT_TO_BIT(TSPX_Hsn24, 6)), TCV_Null := OM_FreqDef(TCV_Strt, MobilAllc_r29, TCV_WorkingCh, ChDescrp_fh(TSPX_Chtp11, TSPX_TmSlitD, TSPX_TscD, INT_TO_BIT(TSPX_Maio25, 6), INT_TO_BIT(TSPX_Hsn24, 6)), TCV_cchd1, TCV_Fn), TCV_Null := OM_SendNextOn(TCV_WorkingCh, TCV_Fn))                                                                                                     |                                                                                       |   | 4.                      |
| 13                          |       | L!DL_DatRqFrqre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FrqRedfSnd(TCV_WorkingCh, FrqRedef_01(TCV_chd1, MobilAllc_r29, TCV_Strt,              |   | 5.                      |



|    |                                                                                                                                                            |                                                                            |    |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|----|
| 14 | (TCV_Strt := OC_StartTime(TCV_Fn, 5000, 1))                                                                                                                | CellChDes_omit))                                                           | 6. |
| 15 | +local_sendHoCMD                                                                                                                                           |                                                                            |    |
| 16 | L?DL_EstIn                                                                                                                                                 | DLEstInd(TCV_WorkingCh)                                                    |    |
| 17 | L?DL_DatInHofl                                                                                                                                             | HndOvFIRcv(TCV_WorkingCh, HandOvFail_02)                                   | 7. |
| 18 | +PostMainLinkRel(TCV_ch)                                                                                                                                   |                                                                            |    |
|    | <b>local_sendHoCMD</b>                                                                                                                                     |                                                                            |    |
| 19 | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                                   |                                                                            |    |
| 20 | LIDL_DatRqHoCmd                                                                                                                                            | HndOvSnd(TCV_WorkingCh, HandOverCmd_38(TSPX_TmSlitE, TSPX_TscE, TCV_Strt)) |    |
| 21 | [TSPC_DCS]                                                                                                                                                 |                                                                            |    |
| 22 | LIDL_DatRqHoCmd                                                                                                                                            | HndOvSnd(TCV_WorkingCh, HandOverCmd_39(TSPX_TmSlitE, TSPX_TscE, TCV_Strt)) |    |
|    | <b>local_channel_setup</b>                                                                                                                                 |                                                                            |    |
| 23 | (TCV_n := BIT_TO_INT(TSPX_Chtp11))                                                                                                                         |                                                                            |    |
| 24 | [TCV_n = 1]                                                                                                                                                |                                                                            |    |
| 25 | +FullRateCh_A_1_nociph(C_Immass, TSPX_TmSlitD, TSPX_TscD, ChMod_sign, Freq_rg15, Freq_rd15, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)              |                                                                            | 7. |
| 26 | (TCV_WorkingCh := TCV_chTch)                                                                                                                               |                                                                            |    |
| 27 | +Set_CellChDescr(C_CellA)                                                                                                                                  |                                                                            |    |
| 28 | [(TCV_n = 2) OR (TCV_n = 3)]                                                                                                                               |                                                                            |    |
| 29 | +HalfRateCh_A_1_nociph(TSPX_Chtp11, C_Immass, TSPX_TmSlitD, TSPX_TscD, ChMod_sign, Freq_rg15, Freq_rd15, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3) |                                                                            | 8. |
| 30 | (TCV_WorkingCh := TCV_chTch)                                                                                                                               |                                                                            |    |
| 31 | +Set_CellChDescr(C_CellA)                                                                                                                                  |                                                                            |    |
| 32 | [(TCV_n >= 8) AND (TCV_n <= 15)]                                                                                                                           |                                                                            |    |
| 33 | +SDCCH8_A_1_nociph(TSPX_Chtp11, C_Immass, TSPX_TmSlitD, TSPX_TscD, ChMod_sign, Freq_rg15, Freq_rd15, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)     |                                                                            | 9. |
| 34 | (TCV_WorkingCh := TCV_ch)                                                                                                                                  |                                                                            |    |
| 35 | +Set_CellChDescr(C_CellA)                                                                                                                                  |                                                                            |    |

**Detailed Comments:**

1. To setup a physical channel as BCCH, CCCH.
2. To set a physical channel as BCCH, CCCH for Cell B.
3. To setup a physical channel for immediate assignment.
4. To calculate the starting time for frequency redefinition.
5. To send FREQUENCY REDIFINITION message.
6. To calculate the starting time and send the HANDOVER COMMAND on special frame TCV\_Fn.  
The assigned channel not activated in the tester.
7. The HANDOVER FAILURE message received on the channel using the after time hopping parameters of the frequency redefinition message.
8. If the selected channel type is TCH/F, setup a physical channel as full rate channel for immediate assignment.
9. If the selected channel type is TCH/H, setup a physical channel as half rate channel for immediate assignment.
10. If the selected channel type is SDCCH8, setup a physical channel as SDCCH8 channel for immediate assignment.

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                |     |                         |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----|-------------------------|
| <b>Test Case Name:</b>      |       | TC_26_6_13_9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                |     |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                |     |                         |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                             |                                                                                                |     |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                |     |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                                                           | V   | Comments                |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                |     |                         |
| 2                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_ImmAss, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3, C_T3212_1, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_20_Aman, CellChDes_203_Ad, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_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_RaclnChRq(TCV_Rr := DL_RaclnChRq.msg.ecau_rrf, TCV_Fn := DL_RaclnChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ChReq(ChRequest_17)                                                                            |     |                         |
| 6                           |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                |     | To match ChReq retrans. |
| 7                           |       | +local_continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                |     |                         |
| 8                           |       | <b>local_continue</b><br>(TCV_Fn := OM_ComingFn(TCV_agch), TCV_Strt := OC_StartTime(TCV_Fn, TSPX_Tm3, 1), TCV_chd1 := ChDescrp_fh(TSPX_Chtp13, TSPX_TmSlfF, TSPX_TscF, INT_TO_BIT(TSPX_Maio28, 6), INT_TO_BIT(TSPX_Hsn28, 6)), TCV_Null := OM_FreqDef(TCV_Strt, MobilAllc_r32, TCV_WorkingCh, ChDescrp_fh(TSPX_Chtp13, TSPX_TmSlfF, 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                           |       | LIDL_UdatRqImmAss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ImmAss(TCV_agch, ImmAsgn_r35(TCV_Rr, TCV_Fn, TSPX_TmSlfF, TSPX_TscF, TimingAdv(30), TCV_Strt)) |     |                         |
| 10                          |       | L?DL_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PgRes(TCV_WorkingCh, PagingRes_01)                                                             |     |                         |
| 11                          |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                |     | Restore Normal default  |
| 12                          |       | +ltree_aftertime_hopping_check                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                |     | 5.                      |
| 13                          |       | +PostMainLinkRel(TCV_WorkingCh)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                |     |                         |
| 14                          |       | <b>ltree_aftertime_hopping_check</b><br>(TCV_Res := OM_FHCHK(TCV_WorkingCh, TCV_cchd1, MobilAllc_r32, ChDescrp_fh(TSPX_Chtp13, TSPX_TmSlfF, TSPX_TscF, INT_TO_BIT(TSPX_Maio28, 6), INT_TO_BIT(TSPX_Hsn28, 6))), 5000, TCV_Fn))                                                                                                                                                                                                                                                                                                                                                        |                                                                                                |     |                         |
| 15                          |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                | (P) |                         |
| 16                          |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                | (F) |                         |
| 17                          |       | <b>local_channel_setup</b><br>(TCV_n := BIT_TO_INT(TSPX_Chtp13))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                |     |                         |

|                           |                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |    |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|
| 18                        | [TCV_n = 1]                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |    |
| 19                        | +FullRateCh_A_1_nociph(C_Immass,<br>TSPX_TmSlitF, TSPX_TscF, ChMod_sign,<br>Freq_rg16, Freq_rd16, TimingAdv(30),<br>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(TSPX_Chtp13,<br>C_Immass, TSPX_TmSlitF, TSPX_TscF,<br>ChMod_sign, Freq_rg16, Freq_rd16,<br>TimingAdv(30), C_BABR_0, C_cch_1nonComb,<br>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(TSPX_Chtp13,<br>C_Immass, TSPX_TmSlitF, TSPX_TscF,<br>ChMod_sign, Freq_rg16, Freq_rd16,<br>TimingAdv(30), C_BABR_0, C_cch_1nonComb,<br>C_BPM_3)     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | 9. |
| 28                        | (TCV_WorkingCh := TCV_ch)                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |    |
| 29                        | +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 setup a physical channel for immediate assignment.</li> <li>3. To calculate the starting time for frequency parameters change.</li> <li>4. To inform the test system to change frequency parameters after starting time.</li> <li>5. To check whether the MS transmitting on the after time frequency parameters.</li> <li>6. If the selected channel type is TCH/F, setup a physical channel as full rate channel for immediate assignment before time.</li> <li>7. If the selected channel type is TCH/H, setup a physical channel as half rate channel for immediate assignment before time.</li> <li>8. If the selected channel type is SDCCH8, setup a physical channel as SDCCH8 channel for immediate assignment before time.</li> </ol> |  |    |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                |     |                         |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----|-------------------------|
| <b>Test Case Name:</b>      |       | TC_26_6_13_10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                |     |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/RR/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                |     |                         |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                             |                                                                                                |     |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                |     |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                                                           | V   | 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_NECl_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) |                                                                                                |     | 1.                      |
| 3                           |       | +local_channel_setup                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                |     | 2.                      |
| 4                           | body  | LIDL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)                                                         |     |                         |
| 5                           |       | L?DL_RaclnChRq(TCV_Rr := DL_RaclnChRq.msg.ecau_rrf, TCV_Fn := DL_RaclnChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ChReq(ChRequest_17)                                                                            |     |                         |
| 6                           |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                |     | To match ChReq retrans. |
| 7                           |       | +local_continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                |     |                         |
| 8                           |       | <b>local_continue</b><br>(TCV_Fn := OM_ComingFn(TCV_agch), TCV_Strt := OC_StartTime(TCV_Fn, 5, 1), TCV_chd1 := ChDescrp_fh(TSPX_Chtp14, TSPX_TmSltG, TSPX_TscG, INT_TO_BIT(TSPX_Maio30, 6), INT_TO_BIT(TSPX_Hsn30, 6)), TCV_Null := OM_SendNextOn(TCV_agch, TCV_Fn))                                                                                                                                                                                                                                                                                                                  |                                                                                                |     | 3.                      |
| 9                           |       | LIDL_UdatRqImmass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ImmAss(TCV_agch, ImmAsgn_r36(TCV_Rr, TCV_Fn, TSPX_TmSltG, TSPX_TscG, TimingAdv(30), TCV_Strt)) |     |                         |
| 10                          |       | L?DL_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PgRes(TCV_WorkingCh, PagingRes_01)                                                             |     | 4.                      |
| 11                          |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                |     | Restore Normal default  |
| 12                          |       | +ltree_hopping_check                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                |     |                         |
| 13                          |       | +PostMainLinkRel(TCV_WorkingCh)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                |     |                         |
| 14                          |       | <b>ltree_hopping_check</b><br>(TCV_Res := OM_FHCHK(TCV_WorkingCh, TCV_cchd1, MobilAllc_r33, ChDescrp_fh(TSPX_Chtp14, TSPX_TmSltG, TSPX_TscG, INT_TO_BIT(TSPX_Maio30, 6), INT_TO_BIT(TSPX_Hsn30, 6)), 5000, TCV_Fn))                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                |     |                         |
| 15                          |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                | (P) |                         |
| 16                          |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                | (F) |                         |
| 17                          |       | <b>local_channel_setup</b><br>(TCV_n := BIT_TO_INT(TSPX_Chtp14))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                |     |                         |
| 18                          |       | [TCV_n = 1]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                |     |                         |
| 19                          |       | +FullRateCh_A_1_nociph(C_Immass, TSPX_TmSltG, TSPX_TscG, ChMod_sign, Freq_rg17, Freq_rd17, TimingAdv(30), C_BABR_0, C_cch_1nonComb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                |     | 5.                      |
| 20                          |       | (TCV_WorkingCh := TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                |     |                         |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                     |  |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | +Set_CellChDescr(C_CellA)                                                                                                                                           |  |    |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | [(TCV_n = 2) OR (TCV_n = 3)]                                                                                                                                        |  |    |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | +HalfRateCh_A_1_nociph(TSPX_Chtp14,<br>C_Imm, TSPX_TmSlitG, TSPX_TscG,<br>ChMod_sign, Freq_rg17, Freq_rd17,<br>TimingAdv(30), C_BABR_0, C_cch_1nonComb,<br>C_BPM_3) |  | 6. |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | (TCV_WorkingCh := TCV_chTch)                                                                                                                                        |  |    |
| 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | +Set_CellChDescr(C_CellA)                                                                                                                                           |  |    |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | [(TCV_n >= 8) AND (TCV_n <= 15)]                                                                                                                                    |  |    |
| 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | +SDCCH8_A_1_nociph(TSPX_Chtp14,<br>C_Imm, TSPX_TmSlitG, TSPX_TscG,<br>ChMod_sign, Freq_rg17, Freq_rd17,<br>TimingAdv(30), C_BABR_0, C_cch_1nonComb,<br>C_BPM_3)     |  | 7. |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | (TCV_WorkingCh := TCV_ch)                                                                                                                                           |  |    |
| 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | +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 setup a physical channel for immediate assignment.</li> <li>3. To calculate the starting time for immediate assignment.</li> <li>4. To paging response message received on the channel with after time frequency parameters.</li> <li>5. If the selected channel type is TCH/F, setup a physical channel as full rate channel for immediate assignment after time.</li> <li>6. If the selected channel type is TCH/H, setup a physical channel as half rate channel for immediate assignment after time.</li> <li>7. If the selected channel type is SDCCH8, setup a physical channel as SDCCH8 channel for immediate assignment after time.</li> </ol> |                                                                                                                                                                     |  |    |

## Test Group MM

| Test Case Dynamic Behaviour                                                                                                                                                                                                                                                                                                                    |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   |             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|-------------|
| <b>Test Case Name:</b> TC_26_7_1                                                                                                                                                                                                                                                                                                               |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   |             |
| <b>Group:</b> GSM_L3_MS_v4180/MM/                                                                                                                                                                                                                                                                                                              |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   |             |
| <b>Purpose:</b> 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.                                                                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   |             |
| <b>Default:</b> OtherEventsFail                                                                                                                                                                                                                                                                                                                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   |             |
| <b>Comments:</b> Initial Conditions of MS:<br>The MS has valid TMSI(TMSI_01), CKSN and Kc.It is "idle updated" on cell B.<br>The initial conditions will be arrived in procedures of PREAMBLE.<br>Required SIM card: default<br>Foreseen final state of the MS:<br>The MS has valid TMSI(TMSI_01), CKSN and Kc.It is "idle updated" on cell A. |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   |             |
| Nr                                                                                                                                                                                                                                                                                                                                             | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CRef | V | Comments    |
| 1                                                                                                                                                                                                                                                                                                                                              |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |             |
| 2                                                                                                                                                                                                                                                                                                                                              |       | +IdleUpdated(C_E_default, C_CellB, C_SCH_B, C_BCCH_B_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellB, C_MCC_1, C_PLMN_1, C_LAC_2, CellOpt_01, CellChDes_04, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |      |   |             |
| 3                                                                                                                                                                                                                                                                                                                                              |       | +StartCellA(C_E_suitable, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_02, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment)                                                                                                                                                                                                                                                                                                     |      |   |             |
| 4                                                                                                                                                                                                                                                                                                                                              |       | +PreEstRRC_MM(MiTmsi_01, TCV_cksn, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |             |
| 5                                                                                                                                                                                                                                                                                                                                              |       | +Cipherng_on(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |             |
| 6                                                                                                                                                                                                                                                                                                                                              | body  | +ltree_body                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   |             |
|                                                                                                                                                                                                                                                                                                                                                |       | <b>ltree_body</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |             |
| 7                                                                                                                                                                                                                                                                                                                                              |       | +TmsiReallocation(MiTmsi_02, C_MCC_1, C_PLMN_1, C_LAC_2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   | 1)          |
| 8                                                                                                                                                                                                                                                                                                                                              |       | +ChanRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |             |
| 9                                                                                                                                                                                                                                                                                                                                              |       | (TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   | no cipherng |
| 10                                                                                                                                                                                                                                                                                                                                             |       | +MM_PwrOrSimOff(C_SIMIn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |             |
| 11                                                                                                                                                                                                                                                                                                                                             |       | START T_dly(10000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |             |
| 12                                                                                                                                                                                                                                                                                                                                             |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |             |
| 13                                                                                                                                                                                                                                                                                                                                             |       | +MM_PwrOrSimOn(C_SIMIn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |             |
| 14                                                                                                                                                                                                                                                                                                                                             |       | +WaitForInService                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |             |
| 15                                                                                                                                                                                                                                                                                                                                             |       | +CCCH_group_Paging_group(TCV_Ccd0B, TSPX_IMSI)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |             |
| 16                                                                                                                                                                                                                                                                                                                                             |       | +SelectPagingCh(C_CellB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |             |
| 17                                                                                                                                                                                                                                                                                                                                             |       | +PreEstRRC_MM(MiTmsi_02, TCV_cksn, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   | 2)          |
| 18                                                                                                                                                                                                                                                                                                                                             |       | +ChanRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |             |
| 19                                                                                                                                                                                                                                                                                                                                             |       | +ltree_switchcell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |             |
|                                                                                                                                                                                                                                                                                                                                                |       | <b>ltree_switchcell</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |             |
| 20                                                                                                                                                                                                                                                                                                                                             |       | +Switchcell_B2A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   | 4)          |
| 21                                                                                                                                                                                                                                                                                                                                             |       | +MM_LUP_tmsirealloc(MiTmsi_01, MiTmsi_02, C_MCC_1, C_PLMN_1, C_LAC_2, TCV_lac, TCV_cksn, C_normal Updating, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   | 5)          |
| 22                                                                                                                                                                                                                                                                                                                                             |       | +ChanRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |             |
| 23                                                                                                                                                                                                                                                                                                                                             |       | +CCCH_group_Paging_group(TCV_Ccd0A,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |             |

|                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                   |  |    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|--|----|
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                       | TSPX_IMSI)                                        |  |    |
| 25                                                                                                                                                                                                                                                                                                                                                                                                                                       | +SelectPagingCh(C_CellA)                          |  |    |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                       | +PreEstRRC_MM(MiTmsi_01, TCV_cksn, TimingAdv(30)) |  | 6) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          | +ChanRel_end(TCV_ch)                              |  |    |
| <b>Detailed Comments:</b> <ol style="list-style-type: none"> <li>1) new TMSI from PIXIT, test body starts from here.</li> <li>2) RR connection with the new tmsi 2.</li> <li>3) Initialisation of variables for cell A.</li> <li>4) The RF level of cell B is lowered until the MS selects cell A and starts the Location Update.</li> <li>5) Location Update from cell B to A.</li> <li>6) RR connection with the new tmsi 1</li> </ol> |                                                   |  |    |

| Test Case Dynamic Behaviour                                                                                     |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
|-----------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Case Name:</b>                                                                                          |       | TC_26_7_2_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |   |          |
| <b>Group:</b>                                                                                                   |       | GSM_L3_MS_v4180/MM/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| <b>Purpose:</b>                                                                                                 |       | <ol style="list-style-type: none"> <li>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.</li> <li>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.</li> </ol>                                               |      |   |          |
| <b>Default:</b>                                                                                                 |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| <b>Comments:</b>                                                                                                |       | Initial Conditions of MS:<br>The MS has valid TMSI, CKSN(CKSN1) and Kc.It is "idle updated" on the cell.<br><br>Foreseen final state of the MS:<br>The MS has valid TMSI(TMSI1), CKSN and Kc.It is "idle updated" on cell A.                                                                                                                                                                                                                                                                                                                                          |      |   |          |
| Nr                                                                                                              | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef | V | Comments |
| 1                                                                                                               |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| 2                                                                                                               |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immss, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECl_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_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |      |   |          |
| 3                                                                                                               |       | +PreEstRRC_MM(MiTmsi_01, TCV_cksn, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
| 4                                                                                                               |       | (TCV_cksn:= TSPX_CKSNB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   |          |
| 5                                                                                                               | body  | +Authentication(TCV_ch, TCV_cksn, TSPX_RANDDef)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| 6                                                                                                               |       | +ChanRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
| 7                                                                                                               |       | +PreEstRRC_MM(MiTmsi_01, TCV_cksn, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   | 1)       |
| 8                                                                                                               | post  | +ChanRel_end(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
| <b>Detailed Comments:</b> <ol style="list-style-type: none"> <li>1) RR-Establishment with a new CKSN</li> </ol> |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |

### Test Case Dynamic Behaviour

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_26_7_2_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Group:</b>          | GSM_L3_MS_v4180/MM/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Purpose:</b>        | <p>1) To check that ,after reception of an Authentication Reject message, the Mobile Station:</p> <p>1.1 does not perform normal location updating</p> <p>1.2 does not perform periodic location updating</p> <p>1.3 does not respond to paging with TMSI</p> <p>1.4 rejects any request from CM entity for MM connection except for emergency call</p> <p>1.5 does not perform IMSI detach if deactivated</p> <p>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.</p> <p>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.</p> |
| <b>Default:</b>        | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Comments:</b>       | <p>Initial Conditions of MS:<br/>The MS has valid TMSI, CKSN2 and Kc.It is "idle updated" on cell B.</p> <p>Foreseen final state of the MS:<br/>The MS has valid TMSI, CKSN1 and Kc.It is "idle updated" on cell A.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CRef                                 | V | Comments |
|----|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---|----------|
| 1  |       | START T_guard(700)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      |   |          |
| 2  |       | +BasicServiceMO(TSPX_MOBscSvcG,<br>TSPX_MOChRateG)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      |   |          |
| 3  |       | +IdleUpdated(C_E_default, C_CellB, C_SCH_B,<br>C_BCCH_B_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_1, TimingAdv(30),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_1, C_ci_cellB, C_MCC_1, C_PLMN_1,<br>C_LAC_2, CellOpt_01, CellChDes_04,<br>CellChDes_03, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_01, BcchFreqLst_Omit,<br>BcchFreqLst_48, BcchFreqLst_Omit,<br>C_noRestablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB,<br>C_arfcnBd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                      |   |          |
| 4  |       | +StartCellA(C_E_suitable, C_Immass,<br>TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_1, C_BABR_0,<br>C_cch_1Comb, C_BPM_3, C_T3212_1,<br>C_MCC_1, C_PLMN_1, C_LAC_1,<br>CellChDes_02, CellChDes_03,<br>BcchFreqLst_01, BcchFreqLst_48,<br>C_noRestablishment)                                                                                                                                                                                                                                                                                                                         |                                      |   |          |
| 5  | body  | +PreEstRRC_MM(MiTmsi_01, TCV_cksn,<br>TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                      |   |          |
| 6  |       | +Authentication(TCV_ch, TCV_cksn,<br>TSPX_RANDDef)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      |   |          |
| 7  |       | !IDL_DatRqAuthRej                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | AuthRejSnd(TCV_ch,<br>AuthReject_01) |   |          |
| 8  |       | +ChanRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                      |   |          |
| 9  |       | +MM_no_paging(MiTmsi_01, 3000,<br>TCV_Ccd0B, C_CellB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                      |   | 2)       |
| 10 |       | START T_dly(15000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      |   |          |
| 11 |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      |   |          |
| 12 |       | +local_continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                      |   |          |
| 13 |       | <b>local_continue</b><br>+MM_no_cmservices(3000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                      |   | 3)       |
| 14 |       | +MM_check_ecall1(TimingAdv(30), Milmei_01)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                      |   |          |
| 15 |       | +ltree_switchcelltoA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                      |   |          |
| 16 |       | +NoReaction(30000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                      |   | 5)       |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |                                                                                                                                                   |  |  |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----|
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      | +ltree_continue1                                                                                                                                  |  |  |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      | <b>ltree_continue1</b>                                                                                                                            |  |  |    |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      | +NoReaction(420000)                                                                                                                               |  |  | 6) |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      | +ImsiDetachNoReaction(3000, C_SIMneedRmv)                                                                                                         |  |  | 7) |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      | +MM_PwrOrSimOn(C_SIMneedRmv)                                                                                                                      |  |  |    |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      | +MM_LUPauth2(MiTmsi_01iei, Milmsi_01,<br>C_MCC_1, C_PLMN_1, C_lacdeleted,<br>TCV_lac, C_normal_updating, C_cksnokey,<br>TCV_cksno, TimingAdv(30)) |  |  | 8) |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | post | +ChanRel_end(TCV_ch)                                                                                                                              |  |  |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      | <b>ltree_switchcelltoA</b>                                                                                                                        |  |  |    |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      | +Switchcell_B2A                                                                                                                                   |  |  |    |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      | (TCV_cksno := TSPX_CKSNA, TCV_CphKey :=<br>OC_CphKeyGen(TSPX_Ki, TSPX_RANDA))                                                                     |  |  | 9) |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |                                                                                                                                                   |  |  |    |
| <ul style="list-style-type: none"> <li>1) Initial condition: CKSN2, which has the default value.</li> <li>2) Check of purpose 1.3</li> <li>3) Check of purpose 1.4</li> <li>4) Check of purpose 1.4, emergency call</li> <li>5) Check of purpose 1.1</li> <li>6) Check of purpose 1.2</li> <li>7) Check of purpose 1.5</li> <li>8) Check normal location update after SimOutIn or SwitchOnOff or PowerOnOff.</li> <li>9) CKSN1 takes the value different from the default value.</li> </ul> |      |                                                                                                                                                   |  |  |    |

### Test Case Dynamic Behaviour

**Test Case Name:** TC\_26\_7\_3\_1  
**Group:** GSM\_L3\_MS\_v4180/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.  
**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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CRef | V | Comments |
|----|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| 1  |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
| 2  |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immss, 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_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |      |   |          |
| 3  | body  | +PreEstRRC_MM(MiTmsi_01, TCV_cks, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
| 4  |       | +IdentityRequest(C_IMSI, Milmsi_01)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
| 5  |       | +IdentityRequest(C_TMSI, MiTmsi_01)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
| 6  |       | +Ciphering_on(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| 7  |       | +IdentityRequest(C_IMEI, Milmei_01)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
| 8  |       | +Ciphering_off(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
| 9  |       | +IdentityRequest(C_IMEI, Milmei_01)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
| 10 |       | +IdentityRequest(C_IMEISV, Milmeisv_01)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
| 11 | post  | +ChanRel_end(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |

**Detailed Comments:**

| <b>Test Case Dynamic Behaviour</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Case Name:</b> TC_26_7_3_2<br><b>Group:</b> GSM_L3_MS_v4180/MM/<br><b>Purpose:</b> 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: <ol style="list-style-type: none"> <li>1. perform location updating</li> <li>2. answer to paging with IMSI</li> <li>3. give the correct IMSI when asked by an IDENTITY REQUEST</li> <li>4. attempt CM connection establishment when requested to</li> <li>5. attempt call re-establishment when needed</li> <li>6. attempt IMSI detach when needed</li> <li>7. erase its TMSI when the IMSI is sent by the network in a LOCATION UPDATING ACCEPT or a TMSI REALLOCATION COMMAND message.</li> </ol> <b>Default:</b> OtherEventsFail<br><b>Comments:</b> Initial Conditions of MS:<br>The MS has no valid TMSI. It is "idle updated" on the cell. The IMSI has the value '001011234'.<br>This test case shall use the SIM Card 2 with 'IMSI=001011234' and HPLMN_search_period=6min.<br>Foreseen final state of the MS:<br>The MS has no valid TMSI. It is "idle updated" on the cell. |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| Nr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef | V | 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_NECL_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_ReEstablishment, C_BCC, C_NCC, C_Start_Imsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDf, C_arfcnA, C_arfcnAd, C_shortIMSI, C_Test_fh, C_NCCP_2) |      |   | 0.       |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | +CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSttDef, 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | +ltree_body                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |   |          |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | <b>ltree_body</b><br>+ltree_check_idreqimsi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |   | 1.       |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | +ltree_EnterCCstateU10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | (TCV_Null := OM_Deactivate(TCV_chTch, TCV_sacchTch), TCV_Null := OM_CphMd(TCV_chTch, CphMod_02, TCV_CphKey))                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |          |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | +ltree_check_reestablish_imsi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   | 2.       |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | +ltree_check_tmsi_imsi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   | 3.       |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | +ImsiDetach(Milmsi_31, TimingAdv(30), C_SIMIn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   | 4.       |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | +ltree_check_luppoweron                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   | 5.       |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | +ltree_check_luplacchange                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   | 6.       |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | +ltree_check_cmservreqimsi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   | 7.       |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | +ChanRel_end(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | <b>ltree_check_idreqimsi</b><br>+PreEstRRC_MM(Milmsi_31, TCV_cksn, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | +IdentityRequest(C_IMSI, Milmsi_31)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |

|    |                                                                                                                                                                                                                                                                |                                                                                                                                               |                         |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 19 | <b>ltree_check_reestablish_imsi</b><br>L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                        | ChReq(ChRequest_1<br>0)                                                                                                                       |                         |
| 20 | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                   |                                                                                                                                               | To match ChReq retrans. |
| 21 | LIDL_UdatRqImmss                                                                                                                                                                                                                                               | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCC4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(30))) |                         |
| 22 | L?DL_EstInCmreRq                                                                                                                                                                                                                                               | CmreReq_02(Milmsi_<br>31, LocAreald_omit)                                                                                                     | (P)                     |
| 23 | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                      |                                                                                                                                               | Restore Normal default  |
| 24 | +TmsiReallocation(MiTmsi_01, C_MCC_1,<br>C_PLMN_1, C_LAC_1)                                                                                                                                                                                                    |                                                                                                                                               |                         |
| 25 | +ChanRel(TCV_ch)                                                                                                                                                                                                                                               |                                                                                                                                               |                         |
| 26 | <b>ltree_check_tmsi_imsi</b><br>+PreEstRRC_MM(MiTmsi_01, TCV_cksn,<br>TimingAdv(30))                                                                                                                                                                           |                                                                                                                                               |                         |
| 27 | +Authentication(TCV_ch, TCV_cksn,<br>TSPX_RANDDef)                                                                                                                                                                                                             |                                                                                                                                               |                         |
| 28 | +TmsiReallocation(Milmsi_31, C_MCC_1,<br>C_PLMN_1, C_LAC_1)                                                                                                                                                                                                    |                                                                                                                                               |                         |
| 29 | +ChanRel(TCV_ch)                                                                                                                                                                                                                                               |                                                                                                                                               |                         |
| 30 | (TCV_Null := OM_CphMd(TCV_ch,<br>CphMod_02, TCV_CphKey))                                                                                                                                                                                                       |                                                                                                                                               |                         |
| 31 | <b>ltree_check_luppoweron</b><br>+MM_PwrOrSimOn(C_SIMIn)                                                                                                                                                                                                       |                                                                                                                                               |                         |
| 32 | +MM_LUP2(MiTmsi_01iei, Milmsi_31, C_MCC_1,<br>C_PLMN_1, TCV_lac, TCV_lac, C_imsi_attach,<br>TCV_cksn, TimingAdv(30))                                                                                                                                           |                                                                                                                                               |                         |
| 33 | <b>ltree_check_luplacchange</b><br>(TCV_lac:= C_LAC_2)                                                                                                                                                                                                         |                                                                                                                                               |                         |
| 34 | (TCV_slot := C_S0, TCV_tsc := C_BCC)                                                                                                                                                                                                                           |                                                                                                                                               |                         |
| 35 | +StartCellA_1(C_E_default, C_Immss,<br>TCV_slot, TCV_tsc, TimingAdv(30), 5, 1, 0, 1,<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_MCC_1, C_PLMN_1, TCV_lac,<br>BcchFreqLst_01, BcchFreqLst_01,<br>BcchFreqLst_48, BcchFreqLst_48,<br>C_noRestablishment) |                                                                                                                                               |                         |
| 36 | +MM_LUP_imsi(C_T_Wait1stChReq,<br>Milmsi_31iei, MiTmsi_01, C_MCC_1,<br>C_PLMN_1, C_LAC_1, TCV_lac,<br>C_normal_updating, TimingAdv(30))                                                                                                                        |                                                                                                                                               |                         |
| 37 | <b>ltree_check_cmservreqimsi</b><br>+BasicServiceMO(TSPX_MOBscSvcF,<br>TSPX_MOChRateF)                                                                                                                                                                         |                                                                                                                                               |                         |
| 38 | +InitCall(TCV_Service)                                                                                                                                                                                                                                         |                                                                                                                                               |                         |
| 39 | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                               | ChReq(ChRequest_1<br>5)                                                                                                                       |                         |
| 40 | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                   |                                                                                                                                               | To match ChReq retrans. |
| 41 | LIDL_UdatRqImmss                                                                                                                                                                                                                                               | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCC4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(30))) |                         |
| 42 | L?DL_EstInCmsRq                                                                                                                                                                                                                                                | CMSerReq(CMServic<br>eReq_30(Milmsi_31))                                                                                                      | (P)                     |
| 43 | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                      |                                                                                                                                               | Restore Normal default  |

|                           |                                                             |                                                                                                                                                                                                                                          |     |  |
|---------------------------|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--|
| 44                        | <b>ltree_EnterCCstateU10</b><br>L!DL_DatRqAuthRq            | AuthReq(TCV_ch,<br>AuthRequest(TSPX_<br>CKSNDf,<br>TSPX_RANDDef))                                                                                                                                                                        |     |  |
| 45                        | L?DL_DatInAuthRes(TCV_Sres :=<br>DL_DatInAuthRes.msg.sres)  | AuthRes(AuthRespon<br>se)                                                                                                                                                                                                                |     |  |
| 46                        | (TCV_Res := OC_ChkSRES(TCV_Sres,<br>TSPX_Ki, TSPX_RANDDef)) |                                                                                                                                                                                                                                          | (I) |  |
| 47                        | [NOT TCV_Res]                                               |                                                                                                                                                                                                                                          |     |  |
| 48                        | +PostMainLinkRel(TCV_ch)                                    |                                                                                                                                                                                                                                          |     |  |
| 49                        | [TCV_Res]                                                   |                                                                                                                                                                                                                                          |     |  |
| 50                        | +Cipherring_on(TCV_ch)                                      |                                                                                                                                                                                                                                          |     |  |
| 51                        | L!DL_DatRqSetup                                             | SetupSnd(TCV_ch,<br>TCV_Setup_mt)                                                                                                                                                                                                        |     |  |
| 52                        | L?DL_DatInCallCo(TCV_CallCfm :=<br>DL_DatInCallCo.msg)      | CallCfm(CallConfirm_<br>01(TI_01))                                                                                                                                                                                                       |     |  |
| 53                        | +CCAssignTCH(TSPX_TmSlitDef,<br>TSPX_TscDef)                |                                                                                                                                                                                                                                          |     |  |
| 54                        | L?DL_DatInConn                                              | ConnRcv(Connect_01<br>(TI_01))                                                                                                                                                                                                           |     |  |
| 55                        | L!DL_DatRqConnAck                                           | ConnAckSnd(TCV_ch<br>Tch,<br>ConnectAck_01(TI_0<br>2))                                                                                                                                                                                   |     |  |
| 56                        | +CCstatuschk_02(TCV_chTch,<br>C_U10, TI_02, TI_01)          |                                                                                                                                                                                                                                          |     |  |
| 57                        | L?DL_DatInAlert                                             | AlertRcv(AlertingInd_<br>02(TI_01))                                                                                                                                                                                                      |     |  |
| 58                        | (TCV_Null := OO_HookOff())                                  |                                                                                                                                                                                                                                          |     |  |
| 59                        | L?DL_DatInConn                                              | ConnRcv(Connect_01<br>(TI_01))                                                                                                                                                                                                           |     |  |
| 60                        | L!DL_DatRqConnAck                                           | ConnAckSnd(TCV_ch<br>Tch,<br>ConnectAck_01(TI_0<br>2))                                                                                                                                                                                   |     |  |
| 61                        | +CCstatuschk_02(TCV_chTc<br>h, C_U10, TI_02, TI_01)         |                                                                                                                                                                                                                                          |     |  |
| <b>Detailed Comments:</b> |                                                             | 0. Initial condition: no valid TMSI.<br>1. check of purpose 2. and 3.<br>2. check of purpose 5.<br>3. check of purpose 7.<br>4. check of purpose 6.<br>5. check of purpose 1.<br>6. check of purpose 1. and 7.<br>7. check of purpose 4. |     |  |

### Test Case Dynamic Behaviour

**Test Case Name:** TC\_26\_7\_4\_1  
**Group:** GSM\_L3\_MS\_v4180/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.  
**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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CRef                                                                                                                    | V | 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_1, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                                                                                                         |   |                         |
| 3  |       | +StartCellB(C_E_suitable, C_arfcnB, C_arfcnBd, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_1, C_LAC_2, CellChDes_04, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC)                                                                                                                                                                                                                                                                 |                                                                                                                         |   |                         |
| 4  | body  | +ltree_switchcelltoB_LupPag1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                         |   |                         |
| 5  |       | +ltree_switchcelltoA_LupPag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                         |   |                         |
| 6  |       | +ltree_switchcelltoB_LupPag2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                         |   |                         |
|    |       | <b>ltree_switchcelltoB_LupPag1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                         |   |                         |
| 7  |       | +Switchcell_A2B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                         |   |                         |
| 8  |       | +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))                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                         |   |                         |
| 9  |       | +WaitForInService                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                         |   |                         |
| 10 |       | +CCCH_group_Paging_group(TCV_Ccd0B, TSPX_IMSI)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                         |   |                         |
| 11 |       | +SelectPagingCh(C_CellB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                         |   |                         |
| 12 |       | +PreEstRRC_MM(MiTmsi_02, TCV_cksn, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                         |   |                         |
| 13 |       | +ChanRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                         |   |                         |
|    |       | <b>ltree_switchcelltoA_LupPag</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                         |   |                         |
| 14 |       | +Switchcell_B2A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                         |   |                         |
| 15 |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ChReq(ChRequest_09)                                                                                                     |   |                         |
| 16 |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                         |   | To match ChReq retrans. |
| 17 |       | LIDL_UdatRqImmass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30))) |   |                         |
| 18 |       | L?DL_EstInLupRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | LocUp(TCV_ch, LocUpdReq_31(MiT                                                                                          |   |                         |

|                           |                                                                                  |                                                                                                                                        |     |                         |
|---------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| 19                        | ACTIVATE(OtherEventsFail)                                                        | msi_02, C_MCC_1,<br>C_PLMN_1,<br>C_LAC_2,<br>C_normal_updating,<br>TCV_cksn))                                                          |     | Restore Normal default  |
| 20                        | L!DL_DatRqLupAcp                                                                 | LocAcp(TCV_ch,<br>LocUpdtAcp_01(MiMsi_01,<br>C_MCC_1,<br>C_PLMN_1,<br>C_LAC_1))                                                        | (P) |                         |
| 21                        | +ChanRel(TCV_ch)                                                                 |                                                                                                                                        |     |                         |
| 22                        | +WaitForInService                                                                |                                                                                                                                        |     |                         |
| 23                        | +CCCH_group_Paging_group(TCV_Ccd0A, TSPX_IMSI)                                   |                                                                                                                                        |     |                         |
| 24                        | +SelectPagingCh(C_CellA)                                                         |                                                                                                                                        |     |                         |
| 25                        | +PreEstRRC_MM(MiTmsi_02,<br>TCV_cksn, TimingAdv(30))                             |                                                                                                                                        |     |                         |
| 26                        | +ChanRel(TCV_ch)                                                                 |                                                                                                                                        |     |                         |
| 27                        | <b>Itree_switchcelltoB_LupPag2</b>                                               |                                                                                                                                        |     |                         |
| 28                        | +Switchcell_A2B                                                                  |                                                                                                                                        |     |                         |
| 29                        | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn) | ChReq(ChRequest_09)                                                                                                                    |     |                         |
| 30                        | ACTIVATE(OtherEventsFail_02)<br>L!DL_UdatRqImmss                                 | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV_Rr, TCV_Fn,<br>TSPX_SDCCH4SubDef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(30))) |     | To match ChReq retrans. |
| 31                        | L?DL_EstInLupRq                                                                  | LocUp(TCV_ch,<br>LocUpdtReq_31(MiTmsi_02, C_MCC_1,<br>C_PLMN_1,<br>C_LAC_1,<br>C_normal_updating,<br>TCV_cksn))                        |     |                         |
| 32                        | ACTIVATE(OtherEventsFail)                                                        |                                                                                                                                        |     | Restore Normal default  |
| 33                        | L!DL_DatRqLupAcp                                                                 | LocAcp(TCV_ch,<br>LocUpdtAcp_01(MiMsi_01,<br>C_MCC_1,<br>C_PLMN_1,<br>C_LAC_2))                                                        | (P) |                         |
| 34                        | +ChanRel(TCV_ch)                                                                 |                                                                                                                                        |     |                         |
| 35                        | +WaitForInService                                                                |                                                                                                                                        |     |                         |
| 36                        | +MM_no_paging(MiTmsi_02, 5000,<br>TCV_Ccd0B, C_CellB)                            |                                                                                                                                        |     |                         |
| 37                        | +PreEstRRC_MM(MiMsi_01,<br>TCV_cksn, TimingAdv(30))                              |                                                                                                                                        |     |                         |
| 38                        | +ChanRel_end(TCV_ch)                                                             |                                                                                                                                        |     |                         |
| <b>Detailed Comments:</b> |                                                                                  |                                                                                                                                        |     |                         |

| Test Case Dynamic Behaviour                                                                                                                                                                                                  |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Case Name:</b> TC_26_7_4_2_1                                                                                                                                                                                         |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
| <b>Group:</b> GSM_L3_MS_v4180/MM/                                                                                                                                                                                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
| <b>Purpose:</b> 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".                                                   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
| <b>Default:</b> OtherEventsFail                                                                                                                                                                                              |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
| <b>Comments:</b> Initial Conditions of MS:<br>The MS has no valid TMSI and no CKSN. It is "idle updated" on cell A.<br>Foreseen final state of the MS:<br>The MS has valid TMSI and no CKSN. It is "idle updated" on cell A. |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
| Nr                                                                                                                                                                                                                           | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | CRef | V | Comments |
| 1                                                                                                                                                                                                                            |       | START T_guard(2100)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   |          |
| 2                                                                                                                                                                                                                            |       | +BasicServiceMO(TSPX_MOBscSvcD,<br>TSPX_MOChRateD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| 3                                                                                                                                                                                                                            |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immss, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_1, TimingAdv(30),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_1, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_02,<br>CellChDes_03, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_01, BcchFreqLst_Omit,<br>BcchFreqLst_48, BcchFreqLst_Omit,<br>C_noRestablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |      |   |          |
| 4                                                                                                                                                                                                                            |       | +StartCellB(C_E_suitable, C_arfcnB,<br>C_arfcnBd, C_Immss, TCV_slot, TCV_tsc,<br>TimingAdv(30), C_TxInt_5, C_Max_1,<br>C_NECI_0, C_ATT_1, C_BABR_0,<br>C_cch_1Comb, C_BPM_3, C_T3212_1,<br>C_MCC_1, C_PLMN_1, C_LAC_2,<br>CellChDes_04, CellChDes_03,<br>BcchFreqLst_01, BcchFreqLst_48,<br>C_noRestablishment, C_BCC, C_NCC)                                                                                                                                                                                                                                                                                   |      |   |          |
| 5                                                                                                                                                                                                                            | body  | +execution1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
| 6                                                                                                                                                                                                                            |       | +execution2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
| 7                                                                                                                                                                                                                            |       | +execution3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
|                                                                                                                                                                                                                              |       | <b>execution1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   |          |
| 8                                                                                                                                                                                                                            |       | +Switchcell_A2B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
| 9                                                                                                                                                                                                                            |       | +MM_LupRej(C_rc_imsiunknownhrl,<br>C_normal_updating, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |          |
| 10                                                                                                                                                                                                                           |       | +ltree_main                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
| 11                                                                                                                                                                                                                           |       | +ChanRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
|                                                                                                                                                                                                                              |       | <b>execution2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   |          |
| 12                                                                                                                                                                                                                           |       | +Switchcell_A2B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
| 13                                                                                                                                                                                                                           |       | +MM_LupRej(C_rc_illegal_ms, C_normal_updating,<br>TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 14                                                                                                                                                                                                                           |       | +ltree_main                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
| 15                                                                                                                                                                                                                           |       | +ChanRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
|                                                                                                                                                                                                                              |       | <b>execution3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   |          |
| 16                                                                                                                                                                                                                           |       | +Switchcell_A2B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
| 17                                                                                                                                                                                                                           |       | +MM_LupRej(C_rc_illegal_me, C_normal_updating,<br>TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 18                                                                                                                                                                                                                           |       | +ltree_main                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
| 19                                                                                                                                                                                                                           | post  | +ChanRel_end(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |          |
|                                                                                                                                                                                                                              |       | <b>ltree_main</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   |          |
| 20                                                                                                                                                                                                                           |       | +Switchcell_B2A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
| 21                                                                                                                                                                                                                           |       | +NoReaction(30000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| 22                                                                                                                                                                                                                           |       | +NoReaction(420000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   |          |
| 23                                                                                                                                                                                                                           |       | +MM_no_paging(Milmsi_01, 3000,<br>TCV_Ccd0A, C_CellA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |   |          |



|                           |  |                                                                                                                                                          |  |  |  |
|---------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| 24                        |  | +MM_no_paging(MiTmsi_01, 3000,<br>TCV_Ccd0A, C_CellA)                                                                                                    |  |  |  |
| 25                        |  | +MM_no_cmsservices(3000)                                                                                                                                 |  |  |  |
| 26                        |  | +MM_check_ecall1(TimingAdv(30),<br>Milmei_01)                                                                                                            |  |  |  |
| 27                        |  | +ImsiDetachNoReaction(3000,<br>C_SIMneedRmv)                                                                                                             |  |  |  |
| 28                        |  | +MM_PwrOrSimOn(C_SIMneedRmv)                                                                                                                             |  |  |  |
| 29                        |  | +MM_LUPauth2(MiTmsi_01iei,<br>Milmsi_01, C_MCC_1, C_PLMN_1,<br>C_lacdeleted, TCV_lac,<br>C_normal_updating,<br>C_cksn_nokey, TCV_cksn,<br>TimingAdv(30)) |  |  |  |
| <b>Detailed Comments:</b> |  |                                                                                                                                                          |  |  |  |

| Test Case Dynamic Behaviour                                                                                                                                                                                                                                                                                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Case Name:</b> TC_26_7_4_2_2_1                                                                                                                                                                                                                                                                     |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
| <b>Group:</b> GSM_L3_MS_v4180/MM/                                                                                                                                                                                                                                                                          |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
| <b>Purpose:</b> To test the behaviour of the MS if the network rejects the location updating of the MS with the cause "PLMN not allowed".                                                                                                                                                                  |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
| <b>Default:</b> OtherEventsFail                                                                                                                                                                                                                                                                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
| <b>Comments:</b> Initial conditions for the Mobile Station:<br>- The MS has a valid TMSI. It is "idle updated" on cell C.<br>- The MS is in manual mode for PLMN selection.<br><br>Final state of the Mobile Station:<br>Idle Updated with TMSI on cell C. The MS is in automatic mode for PLMN selection. |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
| Nr                                                                                                                                                                                                                                                                                                         | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CRef | V | Comments |
| 1                                                                                                                                                                                                                                                                                                          |       | START T_guard(720)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
| 2                                                                                                                                                                                                                                                                                                          |       | +BasicServiceMO(TSPX_MOBscSvcA,<br>TSPX_MOChRateA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
| 3                                                                                                                                                                                                                                                                                                          |       | +IdleUpdated(C_E_default, C_CellC, C_SCH_C,<br>C_BCCH_C_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellC, C_MCC_1, C_PLMN_1,<br>C_LAC_3, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_07, BcchFreqLst_07,<br>BcchFreqLst_15, BcchFreqLst_15,<br>C_noReestablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnC,<br>C_arfcnCd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |      |   |          |
| 4                                                                                                                                                                                                                                                                                                          | body  | +MM_PwrOrSimOff(C_SIMIn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   |          |
| 5                                                                                                                                                                                                                                                                                                          |       | (TCV_Null := OM_StopCell(C_CellC))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
| 6                                                                                                                                                                                                                                                                                                          |       | +Varinit_fixB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |          |
| 7                                                                                                                                                                                                                                                                                                          |       | +Start_2cells(C_Immass, TCV_slot,<br>TCV_tsc, TimingAdv(30), C_ATT_1,<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_1, C_MCC_1, C_PLMN_2,<br>C_LAC_1, C_LAC_2)                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   |          |
| 8                                                                                                                                                                                                                                                                                                          |       | +MM_PwrOrSimOn(C_SIMIn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 9                                                                                                                                                                                                                                                                                                          |       | +ltree_continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
| 10                                                                                                                                                                                                                                                                                                         |       | +RmvForbiddenPlmn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   | 8)       |
|                                                                                                                                                                                                                                                                                                            |       | <b>ltree_continue</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
| 11                                                                                                                                                                                                                                                                                                         |       | (TCV_Null := OO_PLMNselModeMan())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
| 12                                                                                                                                                                                                                                                                                                         |       | (TCV_Null := OO_SelPLMN(C_PLMN_2))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
| 13                                                                                                                                                                                                                                                                                                         |       | +MM_LupRej(C_rc_plmn_not,<br>C_normal_updating, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   | 1)       |
| 14                                                                                                                                                                                                                                                                                                         |       | +NoReaction(420000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   | 2)       |
| 15                                                                                                                                                                                                                                                                                                         |       | +ImsiDetachNoReaction(3000,<br>C_SIMneedRmv)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |   | 3)       |
| 16                                                                                                                                                                                                                                                                                                         |       | +MM_PwrOrSimOn(C_SIMneedRmv)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |   |          |
| 17                                                                                                                                                                                                                                                                                                         |       | +Switchcell_B2A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
| 18                                                                                                                                                                                                                                                                                                         |       | +ltree_continue1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
|                                                                                                                                                                                                                                                                                                            |       | <b>ltree_continue1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
| 19                                                                                                                                                                                                                                                                                                         |       | +NoReaction(60000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   | 4)       |
| 20                                                                                                                                                                                                                                                                                                         |       | +MM_check_ecall1(TimingAdv(30), Milmsi_01)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   | 5)       |
| 21                                                                                                                                                                                                                                                                                                         |       | +MM_no_cmservices(3000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   | 5)       |
| 22                                                                                                                                                                                                                                                                                                         |       | +MM_PwrOrSimOff(C_SIMIn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   |          |
| 23                                                                                                                                                                                                                                                                                                         |       | (TCV_Null := OM_StopCell(C_CellA),<br>TCV_Null := OM_StopCell(C_CellB))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 24                                                                                                                                                                                                                                                                                                         |       | +ltree_continue2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
|                                                                                                                                                                                                                                                                                                            |       | <b>ltree_continue2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
| 25                                                                                                                                                                                                                                                                                                         |       | +Varinit_fixC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |          |
| 26                                                                                                                                                                                                                                                                                                         |       | +StartCellC(C_E_default, C_Immass, TCV_slot,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |   | 6)       |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                       |  |    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|
| 27<br>28<br>29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | TCV_tsc, TimingAdv(30), 0, C_BABR_0,<br>C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1,<br>C_PLMN_1, C_LAC_3, C_noRestablishment,<br>C_BCC, C_NCC)<br>+MM_PwrOrSimOn(C_SIMIn)<br>(TCV_Null := OO_PLMNselModeAuto())<br>+MM_LUP2(MiTmsi_01iei, Milmsi_01,<br>C_MCC_1, C_PLMN_1, C_lacdeleted,<br>TCV_lac, C_normal_updating,<br>C_cksn_nokey, TimingAdv(30)) |  | 7) |
| <b>Detailed Comments:</b> <ol style="list-style-type: none"> <li>1) Location updating rejected with cause = PLMN not allowed.</li> <li>MS shall</li> <li>2) not perform periodic updating</li> <li>3) not perform IMSI detach when switched off.</li> <li>4) not perform normal location updating after switching to a new LAC in the same PLMN and when that PLMN is not selected manually.</li> <li>5) reject any request from CM entity for MM connection other than for emergency call.</li> <li>6) switch to a new cell with a new PLMN.</li> <li>7) perform normal location updating after entering in a new PLMN.</li> <li>8. The PLMN of cell B is suppressed on the SIM's forbidden PLMN list.</li> </ol> |                                                                                                                                                                                                                                                                                                                                                       |  |    |

| Test Case Dynamic Behaviour                                                                                                                                                 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Case Name:</b> TC_26_7_4_2_2_2                                                                                                                                      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |          |
| <b>Group:</b> GSM_L3_MS_v4180/MM/                                                                                                                                           |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |          |
| <b>Purpose:</b> To test the behaviour of the MS if the network rejects the location updating of the MS with the cause "PLMN not allowed".                                   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |          |
| <b>Default:</b> OtherEventsFail                                                                                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |          |
| <b>Comments:</b> Initial conditions for the Mobile Station:<br>- The MS has a valid TMSI. It is "idle updated" on cell C.<br>- The MS is in manual mode for PLMN selection. |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |          |
| Final state of the Mobile Station:<br>Idle Updated with TMSI on cell C. The MS is in automatic mode for PLMN selection.                                                     |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |          |
| Nr                                                                                                                                                                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CRef | V | Comments |
| 1                                                                                                                                                                           |       | START T_guard(720)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| 2                                                                                                                                                                           |       | +IdleUpdated(C_E_default, C_CellC, C_SCH_C, C_BCCH_C_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellC, C_MCC_1, C_PLMN_1, C_LAC_3, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_07, BcchFreqLst_07, BcchFreqLst_15, BcchFreqLst_15, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnC, C_arfcnCd, TSPX_IMSI, C_Test_nfh, C_NCCP_2) |      |   |          |
| 3                                                                                                                                                                           | body  | +MM_PwrOrSimOff(C_SIMIn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
| 4                                                                                                                                                                           |       | (TCV_Null := OM_StopCell(C_CellC))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| 5                                                                                                                                                                           |       | +Varinit_fixB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |          |
| 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                                                                                                                                                                           |       | +MM_PwrOrSimOn(C_SIMIn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
| 8                                                                                                                                                                           |       | +ltree_continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |          |
| 9                                                                                                                                                                           |       | +RmvForbiddenPlmn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   | 3)       |
|                                                                                                                                                                             |       | <b>ltree_continue</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| 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)       |
| 14                                                                                                                                                                          |       | +MM_LuplNit(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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   |          |
|                                                                                                                                                                             |       | <b>ltree_continue2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| 19                                                                                                                                                                          |       | +Varinit_fixC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |          |
| 20                                                                                                                                                                          |       | +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)                                                                                                                                                                                                                                                                                                                                                                                         |      |   |          |
| 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))                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |

**Detailed Comments:**

- 1) Location updating rejected with cause = PLMN not allowed.
- 2) MS shall perform normal location updating after switching to a new LAC in the same PLMN and when that PLMN is selected manually.
- 3) The PLMN of cell B is suppressed on the SIM's forbidden PLMN list.

| Test Case Dynamic Behaviour                                                                                                                                                                                                                       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Case Name:</b> TC_26_7_4_2_3                                                                                                                                                                                                              |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| <b>Group:</b> GSM_L3_MS_v4180/MM/                                                                                                                                                                                                                 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| <b>Purpose:</b> To test the behaviour of the MS if the network rejects the location updating of the MS with the cause "Location Area not allowed".<br>To test that the MS deletes the list of forbidden location areas after switching of the MS. |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| <b>Default:</b> OtherEventsFail                                                                                                                                                                                                                   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| <b>Comments:</b> Initial conditions for the Mobile Station:<br>- The MS has a valid TMSI. It is "idle updated" on cell A.<br><br>Initial conditions for the Mobile Station:<br>- The MS has a valid TMSI. It is "idle updated" on cell A.         |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| Nr                                                                                                                                                                                                                                                | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CRef | V | Comments |
| 1                                                                                                                                                                                                                                                 |       | START T_guard(720)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 2                                                                                                                                                                                                                                                 |       | +BasicServiceMO(TSPX_MOBscSvcE,<br>TSPX_MOChRateE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 3                                                                                                                                                                                                                                                 |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_1, TimingAdv(30),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_1, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_02,<br>CellChDes_03, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_01, BcchFreqLst_Omit,<br>BcchFreqLst_48, BcchFreqLst_Omit,<br>C_noRestablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |      |   |          |
| 4                                                                                                                                                                                                                                                 |       | +StartCellB(C_E_suitable, C_arfcnB,<br>C_arfcnBd, C_Immass, TCV_slot, TCV_tsc,<br>TimingAdv(30), C_TxInt_5, C_Max_1,<br>C_NECI_0, C_ATT_1, C_BABR_0,<br>C_cch_1Comb, C_BPM_3, C_T3212_1,<br>C_MCC_1, C_PLMN_1, C_LAC_2,<br>CellChDes_04, CellChDes_03,<br>BcchFreqLst_01, BcchFreqLst_48,<br>C_noRestablishment, C_BCC, C_NCC)                                                                                                                                                                                                                                                                                    |      |   |          |
| 5                                                                                                                                                                                                                                                 |       | +ltree_body                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
|                                                                                                                                                                                                                                                   |       | <b>ltree_body</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
| 6                                                                                                                                                                                                                                                 |       | +Switchcell_A2B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| 7                                                                                                                                                                                                                                                 |       | +MM_LupRej(C_rc_LAnotallowed,<br>C_normal_updating, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   | 1)       |
| 8                                                                                                                                                                                                                                                 |       | +NoReaction(420000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   | 2)       |
| 9                                                                                                                                                                                                                                                 |       | +MM_no_paging(MiTmsi_01, 3000,<br>TCV_Ccd0B, C_CellB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   | 3)       |
| 10                                                                                                                                                                                                                                                |       | +MM_no_cmservices(3000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |   | 4)       |
| 11                                                                                                                                                                                                                                                |       | +MM_check_ecall1(TimingAdv(30),<br>Milmsi_01)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   | 4)       |
| 12                                                                                                                                                                                                                                                |       | +ImsiDetachNoReaction(3000, C_SIMIn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   | 5)       |
| 13                                                                                                                                                                                                                                                |       | +MM_PwrOrSimOn(C_SIMIn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |   |          |
| 14                                                                                                                                                                                                                                                |       | +MM_LupRej2(C_rc_LAnotallowed,<br>Milmsi_01, C_MCC_1, C_PLMN_1,<br>C_lacdeleted, C_normal_updating,<br>C_cksn_nokey, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   | 6)       |
| 15                                                                                                                                                                                                                                                |       | +Switchcell_B2A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| 16                                                                                                                                                                                                                                                |       | +MM_LUPauth1(MiTmsi_01iei,<br>C_MCC_1, C_PLMN_1, TCV_lac,<br>C_normal_updating, TCV_cksn,<br>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

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_26_7_4_2_4_1                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Group:</b>          | GSM_L3_MS_v4180/MM/                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purpose:</b>        | Test purpose 1<br>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). |
| <b>Default:</b>        | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Comments:</b>       | This testcase includes only the procedure of part 1 of GSM 11.10-1, section 26.7.4.2.4.<br><br>Initial Conditions of MS:<br>The MS has valid TMSI, CKSN and Kc.It is "idle updated" on cell B.<br><br>Foreseen final state of the MS:<br>The MS has no valid TMSI and no CKSN. It is "idle updated" on cell A.                                                                                                          |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CRef                                                                  | V   | Comments |
|----|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----|----------|
| 1  |       | START T_guard(720)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                       |     |          |
| 2  |       | +IdleUpdated(C_E_default, C_CellB, C_SCH_B, C_BCCH_B_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_ci_cellB, C_MCC_1, C_PLMN_2, C_LAC_2, CellOpt_01, CellChDes_04, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                                                       |     |          |
| 3  |       | +StartCellA(C_E_suitable, 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_B2A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                       |     |          |
| 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)       |
| 11 |       | L!DL_DatRqLupAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LocAcp(TCV_ch, LocUpdtAcp_01(MiMsi_omit, C_MCC_1, C_PLMN_2, TCV_lac)) | (P) | 4)       |
| 12 |       | +ChanRel_end(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                       |     |          |

**Detailed Comments:** 1) Reject of Location Updating with the cause Roaming is not allowed.

- MS shall
- 2) not perform periodic updating
  - 3) reset the list of "forbidden location areas for national roaming" when powered down.
  - 4) Location Updating Accept with LAI belonging to PLMN2 and without Mobile Identity.

### Test Case Dynamic Behaviour

**Test Case Name:** TC\_26\_7\_4\_2\_4\_2  
**Group:** GSM\_L3\_MS\_v4180/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.  
**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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CRef | V | Comments |
|----|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| 1  |       | START T_guard(360)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   |          |
| 2  |       | +BasicServiceMO(TSPX_MOBscSvcH,<br>TSPX_MOChRateH)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   |          |
| 3  |       | +IdleUpdated(C_E_default, C_CellB, C_SCH_B,<br>C_BCCH_B_1, C_Immss, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_1, TimingAdv(30),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_1, C_ci_cellB, C_MCC_1, C_PLMN_2,<br>C_LAC_2, CellOpt_01, CellChDes_04,<br>CellChDes_03, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_01, BcchFreqLst_Omit,<br>BcchFreqLst_48, BcchFreqLst_Omit,<br>C_noReestablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB,<br>C_arfcnBd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |      |   |          |
| 4  |       | +StartCellA(C_E_suitable, C_Immss,<br>TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_1, C_BABR_0,<br>C_cch_1Comb, C_BPM_3, C_T3212_1,<br>C_MCC_1, C_PLMN_2, C_LAC_1,<br>CellChDes_04, CellChDes_03,<br>BcchFreqLst_01, BcchFreqLst_48,<br>C_noReestablishment)                                                                                                                                                                                                                                                                                                                         |      |   |          |
| 5  |       | +ltree_body                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
|    |       | <b>ltree_body</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 6  |       | +Switchcell_B2A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
| 7  |       | +MM_LupRej(C_rc_roamingnot,<br>C_normal_updating, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   | 1)       |
| 8  |       | +Varinit_fixB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| 9  |       | +MM_LupRej(C_rc_roamingnot,<br>C_normal_updating, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   | 2)       |
| 10 |       | +NoReaction(120000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   | 4)       |
| 11 |       | +MM_no_paging(Milmsi_01, 3000,<br>TCV_Ccd0B, C_CellB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   | 3b)      |
| 12 |       | +Varinit_fixA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| 13 |       | +MM_no_paging(Milmsi_01, 3000,<br>TCV_Ccd0A, C_CellA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   | 3a)      |
| 14 |       | +MM_no_cmservices(3000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   | 4)       |
| 15 |       | +MM_check_ecall1(TimingAdv(30),<br>Milmsi_01)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   | 4)       |
| 16 |       | +ChanRel_end(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   |          |

**Detailed Comments:** 1) Reject of Location Updating with the cause Roaming is not allowed.

MS shall

2) perform normal updating when a new location area is entered.

3a) not respond to paging with TMSI in cell a.

3b) not respond to paging with TMSI in cell b.

4) reject any request from CM entity for MM connection other than for emergency call.



| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_7_4_2_4_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/MM/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| <b>Purpose:</b>             |       | Test purpose 3<br>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).                                                                                                                                                                                                                                                                                                                                 |      |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
| <b>Comments:</b>            |       | This testcase includes only the procedure of part 3 of GSM 11.10-1, section 26.7.4.2.4.<br><br>Initial Conditions of MS:<br>The MS has valid TMSI, CKSN and Kc.It is "idle updated" on cell B.<br><br>Foreseen final state of the MS:<br>The MS has no valid TMSI and no CKSN. It is "idle updated" on cell A.                                                                                                                                                                                                                                                         |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CRef | V | Comments |
| 1                           |       | START T_guard(1020)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| 2                           |       | +IdleUpdated(C_E_default, C_CellB, C_SCH_B, C_BCCH_B_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_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_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |      |   |          |
| 3                           |       | +StartCellA(C_E_suitable, 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_B2A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
| 5                           |       | +MM_LupRej(C_rc_roamingnot, C_normal_updating, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   | 1)       |
| 6                           |       | +Varinit_fixB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |          |
| 7                           |       | +MM_LupRej(C_rc_roamingnot, C_normal_updating, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   | 2)       |
| 8                           |       | +Varinit_fixA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |          |
| 9                           |       | +ChgLAC_A(C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_2, C_LAC_3)                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 10                          |       | +MM_LupRej(C_rc_roamingnot, C_normal_updating, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   | 2)       |
| 11                          |       | +ltree_continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
|                             |       | <b>ltree_continue</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
| 12                          |       | +Varinit_fixB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |          |
| 13                          |       | +ChgLAC_B(C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_2, C_LAC_4)                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 14                          |       | +MM_LupRej(C_rc_roamingnot, C_normal_updating, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   | 2)       |
| 15                          |       | +ChgLAC_A(C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_2, C_LAC_5)                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 16                          |       | +MM_LupRej(C_rc_roamingnot, C_normal_updating, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   | 2)       |
| 17                          |       | +Varinit_fixB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |          |
| 18                          |       | +ChgLAC_B(C_TxInt_5, C_Max_1,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |          |

|                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                           |  |          |                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------|------------------|
| <p>19<br/>20<br/>21</p>                                                                                                                                                                                                                      |  | <p>C_NECL_0, C_ATT_1, C_BABR_0,<br/>C_cch_1Comb, C_BPM_3, C_T3212_1,<br/>C_MCC_1, C_PLMN_2, C_LAC_6)<br/>+MM_LupRej(C_rc_roamingnot,<br/>C_normal_updating, TimingAdv(30))<br/>START T_dly(420000)<br/>?TIMEOUT T_dly</p> |  | <p>P</p> | <p>2)<br/>3)</p> |
| <p><b>Detailed Comments:</b></p> <p>1) Reject of Location Updating with the cause Roaming is not allowed.</p> <p>MS shall</p> <p>2) perform normal updating when a new location area is entered.</p> <p>3) not perform periodic updating</p> |  |                                                                                                                                                                                                                           |  |          |                  |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_7_4_2_4_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/MM/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |          |
| <b>Purpose:</b>             |       | Test purpose 4<br>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.                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| <b>Comments:</b>            |       | This testcase includes only the procedure of part 4 of GSM 11.10-1, section 26.7.4.2.4.<br><br>Initial Conditions of MS:<br>The MS has valid TMSI, CKSN and Kc.It is "idle updated" on cell A.<br><br>Foreseen final state of the MS:<br>The MS has no valid TMSI and no CKSN. It is "idle updated" on cell C.                                                                                                                                                                                                                                                 |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CRef | V | 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_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2) |      |   |          |
| 3                           |       | (TCV_sacch_B := OC_SubchOfSacch4(TSPX_SDCCH4SubDef, C_CellB))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
| 4                           |       | +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)                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| 5                           |       | (TCV_sacch_C := OC_SubchOfSacch4(TSPX_SDCCH4SubDef, C_CellC))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
| 6                           |       | +StartCellC(C_E_suitable, 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)                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
| 7                           |       | +MM_LUPper(C_MCC_1, C_PLMN_2, TCV_lac, C_periodic_updating, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   | 1)       |
| 8                           |       | +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)       |
| 9                           |       | +MM_LUPperrej(C_rc_roamingnot, C_periodic_updating, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   | 3)       |
| 10                          |       | +Varinit_fixC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
| 11                          |       | +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.<br>2) LAI change to HPLMN<br>3) Reject of Periodic Location Updating with the cause Roaming is not allowed in cell A.<br>4) MS shall periodically search to Home PLMN.                                                                                                                                                                                                                                                                                                                                                         |      |   |          |

### Test Case Dynamic Behaviour

**Test Case Name:** TC\_26\_7\_4\_2\_4\_5  
**Group:** GSM\_L3\_MS\_v4180/MM/  
**Purpose:** Test purpose 5  
 To test that if the SIM is removed the list of "forbidden location areas for roaming" is cleared.  
**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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CRef                                                                  | V   | Comments |
|----|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----|----------|
| 1  |       | [TSPC_SIMRmv]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                       |     |          |
| 2  |       | START T_guard(720)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                       |     |          |
| 3  |       | +IdleUpdated(C_E_default, C_CellB, C_SCH_B, C_BCCH_B_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_ci_cellB, C_MCC_1, C_PLMN_2, C_LAC_2, CellOpt_01, CellChDes_04, CellChDes_03, C_CellReselectHys12, C_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_suitable, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_2, C_LAC_1, CellChDes_04, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment)                                                                                                                                                                                                                                                                                                    |                                                                       |     |          |
| 5  | body  | +Switchcell_B2A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                       |     |          |
| 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!DL_DatRqLupAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LocAcp(TCV_ch, LocUpdtAcp_01(MiMsi_omit, C_MCC_1, C_PLMN_1, TCV_lac)) | (P) | no MI    |
| 12 |       | +ChanRel_end(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                       |     |          |
| 13 |       | [NOT TSPC_SIMRmv]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                       | I   |          |

**Detailed Comments:**

- 1) Reject of Location Updating in cell B.
- 2) The SIM is removed.
- 3) The SIM is inserted
- 4) The MS shall reset the list of "forbidden location areas for roaming" when SIM is removed.

| Test Case Dynamic Behaviour                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |     |                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----|---------------------|
| <b>Test Case Name:</b> TC_26_7_4_3_1                                                                                                                                                                                                                                                                                    |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |     |                     |
| <b>Group:</b> GSM_L3_MS_v4180/MM/                                                                                                                                                                                                                                                                                       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |     |                     |
| <b>Purpose:</b> 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. |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |     |                     |
| <b>Default:</b> OtherEventsFail                                                                                                                                                                                                                                                                                         |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |     |                     |
| <b>Comments:</b> Initial Conditions of MS:<br>The MS has valid TMSI, CKSN and Kc.It is "idle updated" on cell B.                                                                                                                                                                                                        |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |     |                     |
| Foreseen final state of the MS:<br>The MS has no valid TMSI and no CKSN. It is "idle updated" on cell A.                                                                                                                                                                                                                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |     |                     |
| Nr                                                                                                                                                                                                                                                                                                                      | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CRef                | V   | Comments            |
| 1                                                                                                                                                                                                                                                                                                                       |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |     |                     |
| 2                                                                                                                                                                                                                                                                                                                       |       | +IdleUpdated(C_E_default, C_CellB, C_SCH_B, C_BCCH_B_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellB, C_MCC_1, C_PLMN_1, C_LAC_2, CellOpt_01, CellChDes_04, CellChDes_03, C_CellReselectHys12, C_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_suitable, 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                                                                                                                                                                                                                                                                                                                       | body  | +Switchcell_B2A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |     | 1)                  |
| 5                                                                                                                                                                                                                                                                                                                       |       | (TCV_Cnt:=0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     |     |                     |
| 6                                                                                                                                                                                                                                                                                                                       |       | REPEAT ltree_ra UNTIL [TCV_Cnt = (TSPX_MaxRetrans+1)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |     | 2)                  |
| 7                                                                                                                                                                                                                                                                                                                       |       | START T_dly(4000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |     |                     |
| 8                                                                                                                                                                                                                                                                                                                       |       | ?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)<br>4+0s to 4+5 s |
| 10                                                                                                                                                                                                                                                                                                                      |       | +ChanRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |     |                     |
| 11                                                                                                                                                                                                                                                                                                                      |       | +Switchcell_A2B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |     | 5)                  |
| 12                                                                                                                                                                                                                                                                                                                      |       | (TCV_Cnt := 0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     |     |                     |
| 13                                                                                                                                                                                                                                                                                                                      |       | REPEAT ltree_ra UNTIL [TCV_Cnt = (TSPX_MaxRetrans+1)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |     | 6)                  |
| 14                                                                                                                                                                                                                                                                                                                      |       | +Switchcell_B2A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                     |     | 7)                  |
| 15                                                                                                                                                                                                                                                                                                                      |       | +NoReaction(6000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |     | 8)                  |
| 16                                                                                                                                                                                                                                                                                                                      |       | <b>ltree_ra</b><br>L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.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 necessary. 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 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   |           |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|-----------|
| <b>Test Case Name:</b>      |       | TC_26_7_4_3_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   |           |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/MM/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   |           |
| <b>Purpose:</b>             |       | 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". |      |   |           |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   |           |
| <b>Comments:</b>            |       | Initial Conditions of MS:<br>The MS has valid TMSI and CKSN. It is "idle updated" on cell A.<br><br>Foreseen final state of the MS:<br>The MS has valid TMSI and CKSN. It is "idle updated" on cell A.                                                                                                                                                                                                                                                                                                                                                                      |      |   |           |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CRef | V | 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_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2)      |      |   |           |
| 3                           |       | +StartCellB(C_E_suitable, 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.        |
|                             |       | <b>ltree_confreq1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |           |
| 9                           |       | +Switchcell_A2B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   |           |
| 10                          |       | +MM_LupRej2(C_rc_protocolerror, MiTmsi_01, C_MCC_1, C_PLMN_1, C_LAC_1, C_normal_updating, TCV_cksn, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   | 1.1.      |
| 11                          |       | +NoReaction(C_T_T3211min)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   | 1.2.      |
| 12                          |       | +MM_LupAndStop(Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal_updating, C_cksn_nokey, TimingAdv(30), TCV_sacch_B, C_T_T3211min)                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   | In cell B |
| 13                          |       | +MM_LupInit(Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal_updating, C_cksn_nokey, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   | 1.2.      |
| 14                          |       | +ChanRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |           |
| 15                          |       | +NoReaction(C_T_T3211min)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |           |
| 16                          |       | +MM_LUPauth2(MiTmsi_01iei, Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal_updating, C_cksn_nokey, TCV_cksn, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   | 1.2.      |
| 17                          |       | +ChanRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |           |
|                             |       | <b>ltree_confreq2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |           |
| 18                          |       | +Switchcell_B2A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   |           |

|    |                                                                                                                                                     |     |                         |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| 19 | +MM_LupRej2(C_rc_conditlError, MiTmsi_01,<br>C_MCC_1, C_PLMN_1, C_LAC_2,<br>C_normal_updating, TCV_cks, TimingAdv(30))                              |     | 1.2.                    |
| 20 | (TCV_Null:=OM_PgFill(C_CellA,<br>PgReqTp1_30(MiTmsi_01)))                                                                                           |     |                         |
| 21 | START T_dly(8000)                                                                                                                                   |     |                         |
| 22 | (TCV_Null := FALSE)                                                                                                                                 |     |                         |
| 23 | REPEAT ltree_wait_or_Rej<br>UNTIL [TCV_Null]                                                                                                        |     |                         |
| 24 | +ltree2_send                                                                                                                                        |     |                         |
|    | <b>ltree2_send</b>                                                                                                                                  |     |                         |
| 25 | (TCV_Null:=OM_PgFill(C_CellA, PgReqTp1Norm))                                                                                                        |     |                         |
| 26 | START T_dly(4000)                                                                                                                                   |     |                         |
| 27 | (TCV_Null := FALSE)                                                                                                                                 |     |                         |
| 28 | REPEAT ltree_wait_or_Rej UNTIL [TCV_Null]                                                                                                           |     |                         |
| 29 | +ImsiDetachNoReaction(30000,<br>C_SIMneedRmv)                                                                                                       |     |                         |
| 30 | +MM_PwrOrSimOn(C_SIMneedRmv)                                                                                                                        |     |                         |
| 31 | +MM_LUPauth2(MiTmsi_01iei,<br>Milmsi_01, C_MCC_1, C_PLMN_1,<br>C_lacdeleted, TCV_lac,<br>C_normal_updating, C_cks_nokey,<br>TCV_cks, TimingAdv(30)) |     |                         |
| 32 | +ChanRel(TCV_ch)                                                                                                                                    |     |                         |
|    | <b>ltree_wait_or_Rej</b>                                                                                                                            |     |                         |
| 33 | ?TIMEOUT T_dly                                                                                                                                      | (P) |                         |
| 34 | (TCV_Null := TRUE)                                                                                                                                  |     |                         |
| 35 | +MM_LupRej(C_rc_conditlError,<br>C_normal_updating, TimingAdv(30))                                                                                  |     | 2.3.                    |
|    | <b>ltree_confreq3</b>                                                                                                                               |     |                         |
| 36 | +Switchcell_A2B                                                                                                                                     |     |                         |
| 37 | +MM_LupAuthRpt(MiTmsi_01, C_MCC_1,<br>C_PLMN_1, C_LAC_1, C_normal_updating,<br>TCV_cks, TimingAdv(30))                                              |     |                         |
| 38 | +NoReaction(3000)                                                                                                                                   |     |                         |
| 39 | +MM_check_ecall2(Milmsi_01, C_cks_nokey,<br>TimingAdv(30))                                                                                          |     | 3.2.                    |
| 40 | START T_dly(15000)                                                                                                                                  |     |                         |
| 41 | ?TIMEOUT T_dly                                                                                                                                      | (F) | 3.3.                    |
| 42 | +ChanRel(TCV_ch)                                                                                                                                    |     |                         |
| 43 | +MM_LUPauth2( MiTmsi_01iei, Milmsi_01,<br>C_MCC_1, C_PLMN_1, C_lacdeleted,<br>TCV_lac, C_normal_updating,<br>C_cks_nokey, TCV_cks, TimingAdv(30))   |     |                         |
| 44 | +ChanRel(TCV_ch)                                                                                                                                    |     |                         |
|    | <b>ltree_confreq4</b>                                                                                                                               |     |                         |
| 45 | +Switchcell_B2A                                                                                                                                     |     |                         |
| 46 | +MM_LupAndStop(MiTmsi_01, C_MCC_1,<br>C_PLMN_1, C_LAC_2, C_normal_updating,<br>TCV_cks, TimingAdv(30), TCV_sacch, 0)                                |     | In cell A               |
| 47 | +BasicServiceMO(TSPX_MOBscSvcD,<br>TSPX_MOChRateD)                                                                                                  |     |                         |
| 48 | +InitCall(TCV_Service)                                                                                                                              |     |                         |
| 49 | +MM_LUP2( MiTmsi_01iei, Milmsi_01,<br>C_MCC_1, C_PLMN_1, C_lacdeleted,<br>TCV_lac, C_normal_updating,<br>C_cks_nokey, TimingAdv(30))                |     | 4.2.                    |
| 50 | +ChanRel(TCV_ch)                                                                                                                                    |     |                         |
| 51 | START T_dly(10000)                                                                                                                                  |     | 4.3.                    |
| 52 | ?TIMEOUT T_dly                                                                                                                                      | (P) |                         |
| 53 | L?DL_RacInChRq (TCV_Rr :=<br>DL_RacInChRq.msg.ecau_rff,<br>TCV_Fn := DL_RacInChRq.fn)                                                               |     | 4.3.                    |
| 54 | ACTIVATE(OtherEventsFail_02)                                                                                                                        |     | To match ChReq retrans. |
| 55 | CANCEL T_dly                                                                                                                                        |     |                         |

ChReq(ChRequest\_0  
2)



|    |                                                                                                                                              |                                                                                                                         |     |                        |
|----|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----|------------------------|
| 56 | L!DL_UdatRqImm                                                                                                                               | ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30))) |     |                        |
| 57 | L?DL_EstInCmsRq                                                                                                                              | CMSerReq(CMSerReq_32(MiTmsi_01, C_cksnokey))                                                                            | (P) |                        |
| 58 | ACTIVATE(OtherEventsFail)                                                                                                                    |                                                                                                                         |     | Restore Normal default |
| 59 | +ChanRel(TCV_ch)                                                                                                                             |                                                                                                                         |     |                        |
| 60 | <b>ltree_confreq6</b><br>+Switchcell_A2B                                                                                                     |                                                                                                                         |     |                        |
| 61 | +MM_LupInit(MiTmsi_01, C_MCC_1, C_PLMN_1, C_LAC_1, C_normal_updating, C_cksnokey, TimingAdv(30))                                             |                                                                                                                         |     |                        |
| 62 | L!DL_DatRqChRel START<br>T_dly(C_T_T3211plus)                                                                                                | ChRel(TCV_ch, ChRelease_01)                                                                                             |     |                        |
| 63 | L?DL_Relln                                                                                                                                   | DLRellnd_01                                                                                                             | (P) |                        |
| 64 | +Switchcell_B2A                                                                                                                              |                                                                                                                         |     |                        |
| 65 | +MM_LUPauth2( MiTmsi_01iei, Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal_updating, C_cksnokey, TCV_cksnokey, TimingAdv(30)) |                                                                                                                         |     | 6.2.                   |
| 66 | +ChanRel_end(TCV_ch)                                                                                                                         |                                                                                                                         |     |                        |
| 67 | ?TIMEOUT T_dly                                                                                                                               |                                                                                                                         | (F) | 6.1.                   |

**Detailed Comments:**

1. Test of Conformance Requirement 1
  - 1.1. Reject of Location Updating in cell B
  - 1.2. MS shall wait the period of T3211 and restart the normal location updating procedure when the attempt counter is smaller than 4.
  - 1.3. Radio Link Failure extends the period of delay for next location updating.
2. Test of Conformance Requirement 2
  - 2.1. Reject of Location Updating in cell A
  - 2.2. MS shall not answer to paging
  - 2.3. All of location updating requests shall be rejected.
  - 2.4. MS shall not perform the IMSI detach procedure.
3. Test of Conformance Requirement 3
  - 3.1. Failure during Location Updating in cell A
  - 3.2. MS shall support emergency call.
  - 3.3. MS shall wait at most 15 sec. for location updating
4. Test of Conformance Requirement 4
  - 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 can (optional) start automatically 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                                                                                                                                                                                                                                                                                                                                                                                                                     |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Case Name:</b> TC_26_7_4_3_3                                                                                                                                                                                                                                                                                                                                                                                                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| <b>Group:</b> GSM_L3_MS_v4180/MM/                                                                                                                                                                                                                                                                                                                                                                                                               |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| <b>Purpose:</b><br>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.<br>To verify that the MS still follows the MM-IDLE ATTEMPTING TO UPDATE state requirements after its attempt counter has reached value 4.<br>To verify that the attempt counter is reset in the cases where it has to be done. |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| <b>Default:</b> OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| <b>Comments:</b><br>Initial Conditions of MS:<br>The MS has valid TMSI and CKSN. It is "idle updated" on cell B.<br><br>Foreseen final state of the MS:<br>The MS has valid TMSI and CKSN. It is "idle updated" on cell A.                                                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| Nr                                                                                                                                                                                                                                                                                                                                                                                                                                              | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef | V | Comments |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                               |       | START T_guard(1800)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                               |       | +IdleUpdated(C_E_default, C_CellB, C_SCH_B, C_BCCH_B_1, C_Immss, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_ci_cellB, C_MCC_1, C_PLMN_1, C_LAC_2, CellOpt_01, CellChDes_04, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |      |   |          |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                               |       | +StartCellA(C_E_suitable, C_Immss, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_02, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment)                                                                                                                                                                                                                                                                                                    |      |   |          |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                               | body  | +ltree_part1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   | 1.       |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                               |       | +ltree_part2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   | 2.       |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                               |       | +ltree_part3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   | 3.       |
| <b>ltree_part1</b>                                                                                                                                                                                                                                                                                                                                                                                                                              |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                               |       | +Switchcell_B2A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                               |       | +MM_LupRej2(C_rc_congestion, MiTmsi_01, C_MCC_1, C_PLMN_1, C_LAC_2, C_normal_updating, TCV_cksn, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                               |       | +NoReaction(C_T_T3211min)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   |          |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                              |       | +MM_LupAndStop(Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal_updating, C_cksn_nokey, TimingAdv(30), TCV_sacch, C_T_T3211min)                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                              |       | +MM_LupAuthRpt(Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal_updating, C_cksn_nokey, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |          |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                              |       | +ltree_part1_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
| <b>ltree_part1_2</b>                                                                                                                                                                                                                                                                                                                                                                                                                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                              |       | +NoReaction(C_T_T3211min)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   |          |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                              |       | +MM_LupInit(Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal_updating, C_cksn_nokey, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   |          |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                              |       | +ChanRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   | 1.1.     |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                              |       | +NoReaction(C_T_T3212min)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   |          |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                              |       | +MM_LupRej2(C_rc_networkfailure, Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, C_normal_updating, C_cksn_nokey, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   | 1.2.     |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                              |       | +NoReaction(C_T_T3211min)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   |          |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                              |       | +MM_LUPauth2(MiTmsi_01iei,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   | 1.3.     |

|    |                                                                                                                                                       |                                                                                                                                                |                         |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 20 | Milmsi_01, C_MCC_1, C_PLMN_1,<br>C_lacdeleted, TCV_lac,<br>C_normal_updating, C_cks_nokei,<br>TCV_cks_n, TimingAdv(30))<br>+ChanRel(TCV_ch)           |                                                                                                                                                |                         |
|    | <b>ltree_part2</b>                                                                                                                                    |                                                                                                                                                |                         |
| 21 | +Switchcell_A2B                                                                                                                                       |                                                                                                                                                |                         |
| 22 | +ltree_increaseATcounter(C_LAC_1,<br>TCV_sacch_B)                                                                                                     |                                                                                                                                                |                         |
| 23 | +MM_LupRej2(C_rc_notidentified, Milmsi_01,<br>C_MCC_1, C_PLMN_1, C_lacdeleted,<br>C_normal_updating, C_cks_nokei,<br>TimingAdv(30))                   |                                                                                                                                                | 2.1.                    |
| 24 | +MM_check_ecall2(Milmsi_01, C_cks_nokei,<br>TimingAdv(30))                                                                                            |                                                                                                                                                | 2.2.                    |
| 25 | +lmsiDetachNoReaction(3000, C_SIMIn)                                                                                                                  |                                                                                                                                                | 7.                      |
| 26 | +MM_PwrOrSimOn(C_SIMneedRmv)                                                                                                                          |                                                                                                                                                |                         |
| 27 | +MM_LUPauth2(MiTmsi_01iei,<br>Milmsi_01, C_MCC_1, C_PLMN_1,<br>C_lacdeleted, TCV_lac,<br>C_normal_updating, C_cks_nokei,<br>TCV_cks_n, TimingAdv(30)) |                                                                                                                                                |                         |
| 28 | +ChanRel(TCV_ch)                                                                                                                                      |                                                                                                                                                |                         |
|    | <b>ltree_part3</b>                                                                                                                                    |                                                                                                                                                |                         |
| 29 | +Switchcell_B2A                                                                                                                                       |                                                                                                                                                |                         |
| 30 | +ltree_increaseATcounter(C_LAC_2, TCV_sacch)                                                                                                          |                                                                                                                                                |                         |
| 31 | +MM_LupAndStop(Milmsi_01, C_MCC_1,<br>C_PLMN_1, C_lacdeleted, C_normal_updating,<br>C_cks_nokei, TimingAdv(30), TCV_sacch, 0)                         |                                                                                                                                                | 3.1.                    |
| 32 | +BasicServiceMO(TSPX_MOBscSvcF,<br>TSPX_MOChRateF)                                                                                                    |                                                                                                                                                |                         |
| 33 | +InitCall(TCV_Service)                                                                                                                                |                                                                                                                                                |                         |
| 34 | +MM_LupInit(Milmsi_01, C_MCC_1,<br>C_PLMN_1, C_lacdeleted,<br>C_normal_updating, C_cks_nokei,<br>TimingAdv(30))                                       |                                                                                                                                                | 3.2.                    |
| 35 | +ChanRel(TCV_ch)                                                                                                                                      |                                                                                                                                                |                         |
| 36 | +ltree_part3_2                                                                                                                                        |                                                                                                                                                |                         |
|    | <b>ltree_part3_2</b>                                                                                                                                  |                                                                                                                                                |                         |
| 37 | +NoReaction(C_T_T3211min)                                                                                                                             |                                                                                                                                                |                         |
| 38 | +MM_LUPauth2(MiTmsi_01iei, Milmsi_01,<br>C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac,<br>C_normal_updating, C_cks_nokei, TCV_cks_n,<br>TimingAdv(30))    |                                                                                                                                                | 3.3.                    |
| 39 | +ChanRel(TCV_ch)                                                                                                                                      |                                                                                                                                                |                         |
| 40 | START T_dly(10000)                                                                                                                                    |                                                                                                                                                |                         |
| 41 | +ltree_part3_3                                                                                                                                        |                                                                                                                                                |                         |
| 42 | +ltree_part3_4                                                                                                                                        |                                                                                                                                                |                         |
|    | <b>ltree_part3_3</b>                                                                                                                                  |                                                                                                                                                |                         |
| 43 | ?TIMEOUT T_dly                                                                                                                                        |                                                                                                                                                |                         |
| 44 | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)<br>CANCEL T_dly                                                      | ChReq(ChRequest_0<br>2)                                                                                                                        |                         |
| 45 | ACTIVATE(OtherEventsFail_02)                                                                                                                          |                                                                                                                                                | To match ChReq retrans. |
| 46 | LIDL_UdatRqImmss                                                                                                                                      | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(30))) |                         |
| 47 | L?DL_EstInCmsRq                                                                                                                                       | CMSerReq(CMServic<br>eReq_32(MiTmsi_01,<br>TCV_cks_n))                                                                                         | (P)                     |
| 48 | ACTIVATE(OtherEventsFail)                                                                                                                             |                                                                                                                                                | Restore Normal default  |

|    |      |                                                                                                                                                                           |                                                           |      |
|----|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|------|
| 49 |      | L!DL_DatRqCmsRej                                                                                                                                                          | CMSerRej(TCV_ch,<br>CMServiceRej_30(C_rc_networkfailure)) |      |
| 50 |      | +ChanRel(TCV_ch)                                                                                                                                                          |                                                           |      |
| 51 |      | <b>ltree_part3_4</b>                                                                                                                                                      |                                                           |      |
| 52 |      | +Switchcell_A2B                                                                                                                                                           |                                                           |      |
| 53 |      | +ltree_increaseATcounter(C_LAC_1,<br>TCV_sacch_B)                                                                                                                         |                                                           |      |
| 54 |      | +MM_LupRej2(C_rc_invalidmaninfo, Milmsi_01,<br>C_MCC_1, C_PLMN_1, C_lacdeleted,<br>C_normal_updating, C_cksnokey,<br>TimingAdv(30))                                       |                                                           | 3.4. |
| 55 |      | +Switchcell_B2A                                                                                                                                                           |                                                           | 3.5. |
| 56 |      | +MM_LupAndStop(Milmsi_01, C_MCC_1,<br>C_PLMN_1, C_lacdeleted,<br>C_normal_updating, C_cksnokey,<br>TimingAdv(30), TCV_sacch, C_T_T3211min)                                |                                                           | 3.6. |
| 57 | post | +MM_LUPAuth2(MiTmsi_01iei, Milmsi_01,<br>C_MCC_1, C_PLMN_1, C_lacdeleted,<br>TCV_lac, C_normal_updating,<br>C_cksnokey, TCV_cksno, TimingAdv(30))<br>+ChanRel_end(TCV_ch) |                                                           |      |
| 58 |      | <b>ltree_increaseATcounter(lac:OCTETSTRING; par:<br/>LOGICCH)</b>                                                                                                         |                                                           |      |
| 59 |      | +MM_LupRej2(C_rc_notidentified, MiTmsi_01,<br>C_MCC_1, C_PLMN_1, lac, C_normal_updating,<br>TCV_cksno, TimingAdv(30))                                                     |                                                           |      |
| 60 |      | +NoReaction(C_T_T3211min)                                                                                                                                                 |                                                           |      |
| 61 |      | +MM_LupAndStop(Milmsi_01, C_MCC_1,<br>C_PLMN_1, C_lacdeleted, C_normal_updating,<br>C_cksnokey, TimingAdv(30), par,<br>C_T_T3211min)                                      |                                                           |      |
| 62 |      | +MM_LupInit(Milmsi_01, C_MCC_1,<br>C_PLMN_1, C_lacdeleted, C_normal_updating,<br>C_cksnokey, TimingAdv(30))                                                               |                                                           |      |
| 63 |      | +ChanRel(TCV_ch)                                                                                                                                                          |                                                           |      |
|    |      | +NoReaction(C_T_T3211min)                                                                                                                                                 |                                                           |      |

**Detailed Comments:**

1. To test conformance requirement 1
  - 1.1. Attempt counter is now equal to 4
  - 1.2. MS shall perform location updating after T3212
  - 1.3. MS shall initiate location updating procedure, if the updating was unsuccessful.
- 2.) To test conformance requirement 2
  - 2.1. Attempt counter is now equal to 4
  - 2.2. MS shall perform request for emergency call
  - 2.3. MS shall not perform an IMSI detach procedure
- 3.) To test conformance requirement 3 and 4
  - 3.1. Attempt counter is now equal to 4
  - 3.2. MS shall use a request from CM entity for MM connection for a service other than emergency call as a trigger for a normal location updating procedure.
  - 3.3. MS shall reset the attempt counter after successful location updating procedure.
  - 3.4. Attempt counter is now equal to 4
  - 3.5. MS shall perform the normal location updating procedure after entering a new cell.
  - 3.6. If the location updating procedure unsuccessful, the MS shall trigger the location updating after T3211 again.

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                   |   |          |
|-----------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_7_4_3_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                   |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/MM/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                   |   |          |
| <b>Purpose:</b>             |       | 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                                                                                                                                                      |                                   |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                   |   |          |
| <b>Comments:</b>            |       | Initial Conditions of MS:<br>The MS has valid TMSI and CKSN. It is "idle updated" on cell B.<br><br>Foreseen final state of the MS:<br>The MS has valid TMSI and CKSN. It is "idle updated" on cell B.                                                                                                                                                                                                                                                                                                                                                                  |                                   |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CRef                              | V | Comments |
| 1                           |       | START T_guard(2400)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                   |   |          |
| 2                           |       | +IdleUpdated(C_E_suitable, C_CellB, C_SCH_B, C_BCCH_B_1, C_Immss, 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_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_01, BcchFreqLst_48, BcchFreqLst_48, C_noReestablishment, 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.       |
|                             |       | <b>ltree_confreq1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                   |   |          |
| 9                           |       | (TCV_tmp := (C_T_T3212 + 45000))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                   |   |          |
| 10                          |       | +MM_LUPperrej2(C_rc_networkfailure, MiTmsi_01, TCV_tmp, C_MCC_1, C_PLMN_1, TCV_lac, C_periodic_updating, TCV_cks, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                   |   | 1.1.     |
| 11                          |       | +BasicServiceMO(TSPX_MOBscSvcA, TSPX_MOChRateA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                   |   |          |
| 12                          |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                   |   |          |
| 13                          |       | +ltree_cmservinit(MiTmsi_01, TCV_cks)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                   |   | 1.2.     |
| 14                          |       | L!DL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CMSerAcp(TCV_ch, CMServiceAcp_01) |   |          |
| 15                          |       | +ltree_CMmsg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                   |   |          |
| 16                          |       | +ChanRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                   |   |          |
| 17                          |       | (TCV_n := 2 * C_T_T3211min)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                   |   |          |
| 18                          |       | +NoReaction(TCV_n)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |   | 1.3.     |
| 19                          |       | +ImsiDetach(MiTmsi_01, TimingAdv(30), C_SIMneedRmv)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                   |   |          |
|                             |       | <b>ltree_confreq2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                   |   |          |
| 20                          |       | +ltree_MOCall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                   |   |          |
| 21                          |       | +NoReaction(TCV_n)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |   | 2.3.     |
|                             |       | <b>ltree_confreq3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                   |   |          |
| 22                          |       | (TCV_tmp := (C_T_T3212 + 15))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                   |   |          |
| 23                          |       | +MM_LUPperrej3(MiTmsi_01, TCV_tmp, C_MCC_1, C_PLMN_1, TCV_lac, C_periodic_updating, TCV_cks, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                   |   | 3.1.     |
| 24                          |       | +NoReaction(C_T_T3211min)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                   |   |          |
| 25                          |       | +MM_LupRej2(C_rc_networkfailure, MiTmsi_01, C_MCC_1, C_PLMN_1, TCV_lac, C_periodic_updating, TCV_cks,                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                   |   | 3.1.     |

|    |                                                                                                                                  |                                                                                                                         |                         |
|----|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------|
|    | TimingAdv(30))                                                                                                                   |                                                                                                                         |                         |
| 26 | +NoReaction(C_T_T3211min)                                                                                                        |                                                                                                                         |                         |
| 27 | +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.                    |
| 28 | +ltree_luprej3(MiTmsi_01, C_MCC_1, C_PLMN_1, TCV_lac, C_periodic_updating, TCV_cks, TimingAdv(30))                               |                                                                                                                         | 3.1.                    |
| 29 | +MM_LUPperauth(Milmsi_01, MiTmsi_01iei, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normalOrperiodic, C_cks_noke, TimingAdv(30)) |                                                                                                                         | 3.2.                    |
| 30 | +ChanRel(TCV_ch)                                                                                                                 |                                                                                                                         |                         |
|    | <b>ltree_confreq4</b>                                                                                                            |                                                                                                                         |                         |
| 31 | +NoReaction(C_T_T3212min)                                                                                                        |                                                                                                                         |                         |
| 32 | +MM_LupRej2(C_rc_networkfailure, MiTmsi_01, C_MCC_1, C_PLMN_1, TCV_lac, C_periodic_updating, TCV_cks, TimingAdv(30))             |                                                                                                                         |                         |
| 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)    |                                                                                                                         |                         |
| 35 | +ltree_luprej3(MiTmsi_01, C_MCC_1, C_PLMN_1, TCV_lac, C_periodic_updating, TCV_cks, TimingAdv(30))                               |                                                                                                                         |                         |
| 36 | +NoReaction(C_T_T3211min)                                                                                                        |                                                                                                                         |                         |
| 37 | +ltree_confreq4_continue                                                                                                         |                                                                                                                         |                         |
|    | <b>ltree_confreq4_continue</b>                                                                                                   |                                                                                                                         |                         |
| 38 | +MM_LupRej2(C_rc_networkfailure, MiTmsi_01, C_MCC_1, C_PLMN_1, TCV_lac, C_periodic_updating, TCV_cks, TimingAdv(30))             |                                                                                                                         | 4.1.                    |
| 39 | +BasicServiceMO(TSPX_MOBscSvcB, TSPX_MOChRateB)                                                                                  |                                                                                                                         |                         |
| 40 | +InitCall(TCV_Service)                                                                                                           |                                                                                                                         |                         |
| 41 | +MM_LUP2(MiTmsi_01iei, Milmsi_01, C_MCC_1, C_PLMN_1, C_lacdeleted, TCV_lac, C_normal_updating, C_cks_noke, TimingAdv(30))        |                                                                                                                         | 4.2.                    |
| 42 | START T_dly(10000)                                                                                                               |                                                                                                                         |                         |
| 43 | L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) CANCEL T_dly                                     | ChReq(ChRequest_02)                                                                                                     | 4.3.                    |
| 44 | ACTIVATE(OtherEventsFail_02)                                                                                                     |                                                                                                                         | To match ChReq retrans. |
| 45 | LIDL_UdatRqImm                                                                                                                   | ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30))) |                         |
| 46 | L?DL_EstInCmsRq                                                                                                                  | CMSerReq(CMServiceReq_32(MiTmsi_01, C_cks_noke))                                                                        | (P)                     |
| 47 | ACTIVATE(OtherEventsFail)                                                                                                        |                                                                                                                         | Restore Normal default  |
| 48 | LIDL_DatRqCmsRej                                                                                                                 | CMSerRej(TCV_ch, CMSerRej_04)                                                                                           |                         |
| 49 | +ChanRel(TCV_ch)                                                                                                                 |                                                                                                                         |                         |
| 50 | ?TIMEOUT T_dly                                                                                                                   |                                                                                                                         | (P) 4.3)                |
|    | <b>ltree_confreq5</b>                                                                                                            |                                                                                                                         |                         |
| 51 | +ImsiDetach(MiTmsi_01, TimingAdv(30), C_SIMneedRmv)                                                                              |                                                                                                                         |                         |
| 52 | +MM_PwrOrSimOn(C_SIMneedRmv)                                                                                                     |                                                                                                                         |                         |
| 53 | +MM_LupAndStop(MiTmsi_01, C_MCC_1,                                                                                               |                                                                                                                         | 5.1.                    |

|    |                                                                                                                                                          |      |                                                                                                       |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------|
|    | C_PLMN_1, TCV_lac, C_imsi_attach,<br>C_cks_nokey, TimingAdv(30), TCV_sacch_B,<br>C_T_T3211min)                                                           |      |                                                                                                       |
| 54 | +ltree_luprej3(MiTmsi_01, C_MCC_1,<br>C_PLMN_1, TCV_lac, C_imsi_attach,<br>C_cks_nokey, TimingAdv(30))                                                   | 5.1. |                                                                                                       |
| 55 | +NoReaction(C_T_T3211min)                                                                                                                                |      |                                                                                                       |
| 56 | +MM_LupRej2(C_rc_networkfailure,<br>MiTmsi_01, C_MCC_1, C_PLMN_1,<br>TCV_lac, C_imsi_attach, C_cks_nokey,<br>TimingAdv(30))                              | 5.1. |                                                                                                       |
| 57 | +NoReaction(C_T_T3211min)                                                                                                                                |      |                                                                                                       |
| 58 | +MM_LupAndStop(MiTmsi_01,<br>C_MCC_1, C_PLMN_1, TCV_lac,<br>C_imsi_attach, C_cks_nokey,<br>TimingAdv(30), TCV_sacch_B, 0)                                | 5.2. |                                                                                                       |
| 59 | +MM_LUPperauth(Milmsi_01,<br>MiTmsi_01iei, C_MCC_1,<br>C_PLMN_1, C_lacdeleted, TCV_lac,<br>C_norm_period_attach,<br>C_cks_nokey, TimingAdv(30))          | 5.3. |                                                                                                       |
| 60 | +ChanRel(TCV_ch)                                                                                                                                         |      |                                                                                                       |
|    | <b>ltree_confreq6</b>                                                                                                                                    |      |                                                                                                       |
| 61 | +lmsiDetach(MiTmsi_01, TimingAdv(30),<br>C_SIMneedRmv)                                                                                                   |      |                                                                                                       |
| 62 | +MM_PwrOrSimOn(C_SIMneedRmv)                                                                                                                             |      |                                                                                                       |
| 63 | +ltree_luprej3(MiTmsi_01, C_MCC_1,<br>C_PLMN_1, TCV_lac, C_imsi_attach, TCV_cks_n,<br>TimingAdv(30))                                                     |      |                                                                                                       |
| 64 | +NoReaction(C_T_T3211min)                                                                                                                                |      |                                                                                                       |
| 65 | +MM_LupRej2(C_rc_networkfailure,<br>MiTmsi_01, C_MCC_1, C_PLMN_1,<br>TCV_lac, C_imsi_attach, TCV_cks_n,<br>TimingAdv(30))                                |      |                                                                                                       |
| 66 | +NoReaction(C_T_T3211min)                                                                                                                                |      |                                                                                                       |
| 67 | +MM_LupAndStop(MiTmsi_01,<br>C_MCC_1, C_PLMN_1, TCV_lac,<br>C_imsi_attach, TCV_cks_n,<br>TimingAdv(30), TCV_sacch_B,<br>C_T_T3211min)                    |      |                                                                                                       |
| 68 | +ltree_luprej3(MiTmsi_01, C_MCC_1,<br>C_PLMN_1, TCV_lac, C_imsi_attach,<br>TCV_cks_n, TimingAdv(30))                                                     | 6.1. |                                                                                                       |
| 69 | +BasicServiceMO(TSPX_MOBscSvc<br>C, TSPX_MOChRateC)                                                                                                      |      |                                                                                                       |
| 70 | +InitCall(TCV_Service)                                                                                                                                   |      |                                                                                                       |
| 71 | +MM_LUPauth2(MiTmsi_01iei,<br>Milmsi_01, C_MCC_1,<br>C_PLMN_1, C_lacdeleted,<br>TCV_lac, C_normal_updating,<br>C_cks_nokey, TCV_cks_n,<br>TimingAdv(30)) | 6.2. |                                                                                                       |
| 72 | +ChanRel(TCV_ch)                                                                                                                                         |      |                                                                                                       |
| 73 | +ltree_cmservinit(MiTmsi_01,<br>TCV_cks_n)                                                                                                               |      |                                                                                                       |
| 74 | LIDL_DatRqCmsRej                                                                                                                                         |      | CMSerRej(TCV_ch,<br>CMServiceRej_04)                                                                  |
| 75 | +ChanRel(TCV_ch)                                                                                                                                         |      |                                                                                                       |
|    | <b>ltree_cmservinit(par1: MI; par2: BITSTRING)</b>                                                                                                       |      |                                                                                                       |
| 76 | START T_dly(15000)                                                                                                                                       |      |                                                                                                       |
| 77 | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)<br>CANCEL T_dly                                                         |      | ChReq(ChRequest_0<br>2)                                                                               |
| 78 | ACTIVATE(OtherEventsFail_02)                                                                                                                             |      | To match ChReq retrans.                                                                               |
| 79 | LIDL_UdatRqImm                                                                                                                                           |      | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc, |

|                                                                                                      |                                                                                                                     |                                           |     |                        |
|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----|------------------------|
| 80                                                                                                   | L?DL_EstInCmsRq                                                                                                     | TCV_chdescr_arfcn,<br>TimingAdv(30))      | (P) |                        |
| 81                                                                                                   | ACTIVATE(OtherEventsFail)                                                                                           | CMSerReq(CMServic<br>eReq_32(par1, par2)) |     | Restore Normal default |
| 82                                                                                                   | ?TIMEOUT T_dly                                                                                                      |                                           | (F) |                        |
| <b>Itree_CMmsg</b>                                                                                   |                                                                                                                     |                                           |     |                        |
| 83                                                                                                   | L?DL_DatInSetup (TCV_Mt :=<br>DL_DatInSetup.msg.mt)                                                                 | SetupRcv(SetupInd_0<br>1)                 | (P) | 1.2.                   |
| 84                                                                                                   | L?DL_DatInRegister                                                                                                  | Register_03(Register<br>Pdu_01)           | (P) | 1.2.                   |
| 85                                                                                                   | L?DL_DatInCpData                                                                                                    | DatInCpData(TCV_ch<br>, CpDataPdu_any)    | (P) | 1.2.                   |
| <b>Itree_luprej3(par_mi:MI; mcc, mnc,<br/>lac:OCTETSTRING; locup:B_2; cksn:BITSTRING;<br/>ta:TA)</b> |                                                                                                                     |                                           |     |                        |
| 86                                                                                                   | +MM_LupInIt(par_mi, mcc, mnc, lac, locup, cksn, ta)                                                                 |                                           |     |                        |
| 87                                                                                                   | +ChanRel(TCV_ch)                                                                                                    |                                           |     |                        |
| <b>Itree_MOCall</b>                                                                                  |                                                                                                                     |                                           |     |                        |
| 88                                                                                                   | +MM_PwrOrSimOn(C_SIMneedRmv)                                                                                        |                                           |     |                        |
| 89                                                                                                   | +MM_LupAndStop(MiTmsi_01, C_MCC_1,<br>C_PLMN_1, TCV_lac, C_imsi_attach, TCV_cksn,<br>TimingAdv(30), TCV_sacch_B, 0) |                                           |     | 2.1)                   |
| 90                                                                                                   | +BasicServiceMO(TSPX_MOBscSvcD,<br>TSPX_MOChRateD)                                                                  |                                           |     |                        |
| 91                                                                                                   | +InitCall(TCV_Service)                                                                                              |                                           |     |                        |
| 92                                                                                                   | +Itree_cmservinit(MiTmsi_01, TCV_cksn)                                                                              |                                           |     | 2.2)                   |
| 93                                                                                                   | +Cipherring_on(TCV_ch)                                                                                              |                                           |     |                        |
| 94                                                                                                   | +Itree_CMmsg                                                                                                        |                                           |     |                        |
| 95                                                                                                   | +ChanRel(TCV_ch)                                                                                                    |                                           |     |                        |
| 96                                                                                                   | (TCV_Null := OM_CphMd(TCV_ch,<br>CphMod_02, TCV_CphKey))                                                            |                                           |     |                        |

**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                                                                                                                                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                         |   |                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|---|-------------------------|
| <b>Test Case Name:</b> TC_26_7_4_4                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                         |   |                         |
| <b>Group:</b> GSM_L3_MS_v4180/MM/                                                                                                                                                                                       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                         |   |                         |
| <b>Purpose:</b> To verify that the MS aborts the RR-connection at the expiry of timer T3240.                                                                                                                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                         |   |                         |
| <b>Default:</b> OtherEventsFail                                                                                                                                                                                         |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                         |   |                         |
| <b>Comments:</b> Initial Conditions of MS:<br>The MS has valid TMSI and CKSN. It is "idle updated" on cell A.<br><br>Foreseen final state of the MS:<br>The MS has valid TMSI and CKSN. It is "idle updated" on cell B. |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                         |   |                         |
| Nr                                                                                                                                                                                                                      | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                                                                                    | V | Comments                |
| 1                                                                                                                                                                                                                       |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                         |   |                         |
| 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_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_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                                                                                                         |   |                         |
| 3                                                                                                                                                                                                                       |       | +StartCellB(C_E_suitable, C_arfcnB, C_arfcnBd, C_ImmAs, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_2, CellChDes_04, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC)                                                                                                                                                                                                                                                                 |                                                                                                                         |   |                         |
| 4                                                                                                                                                                                                                       | body  | +Switchcell_A2B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                         |   |                         |
| 5                                                                                                                                                                                                                       |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ChReq(ChRequest_09)                                                                                                     |   |                         |
| 6                                                                                                                                                                                                                       |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                         |   | To match ChReq retrans. |
| 7                                                                                                                                                                                                                       |       | L!DL_UdatRqImmAs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30))) |   |                         |
| 8                                                                                                                                                                                                                       |       | L?DL_EstInLupRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LocUp(TCV_ch, LocUpdtReq_04(C_normal_updating, MiTmsi_01))                                                              |   |                         |
| 9                                                                                                                                                                                                                       |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                         |   | Restore Normal default  |
| 10                                                                                                                                                                                                                      |       | +NoReaction(C_T_T3240min)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                         |   |                         |
| 11                                                                                                                                                                                                                      |       | START T_dly(C_T_T3240tol)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                         |   |                         |
| 12                                                                                                                                                                                                                      |       | L?DL_Relln CANCEL T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DLRellnd_01                                                                                                             | P | 1)                      |
| 13                                                                                                                                                                                                                      |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                         | F |                         |
| <b>Detailed Comments:</b> 1) MS shall release the L2-Connection after expiring of T3240.                                                                                                                                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                         |   |                         |

| Test Case Dynamic Behaviour                                                                                                                                                                                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|-------------------------------|
| <b>Test Case Name:</b> TC_26_7_4_5_1                                                                                                                                                                                   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |                               |
| <b>Group:</b> GSM_L3_MS_v4180/MM/                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |                               |
| <b>Purpose:</b>                                                                                                                                                                                                        |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |                               |
| 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 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |                               |
| <b>Default:</b> OtherEventsFail                                                                                                                                                                                        |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |                               |
| <b>Comments:</b> Initial Conditions of MS:<br>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:<br>The MS has valid TMSI and CKSN. It is "idle updated" on cell A.                                                                                                                     |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |                               |
| Nr                                                                                                                                                                                                                     | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CRef | V | Comments                      |
| 1                                                                                                                                                                                                                      |       | START T_guard(1200)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |                               |
| 2                                                                                                                                                                                                                      |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immss, 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_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_TmsiOff, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |      |   | ATT = 1 - IMSI attach allowed |
| 3                                                                                                                                                                                                                      | body  | +ImsiAttach(MiTmsi_01, TimingAdv(30), C_MCC_1, C_PLMN_1, C_SIMneedRmv)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |                               |
| 4                                                                                                                                                                                                                      |       | +step1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |                               |
| 5                                                                                                                                                                                                                      |       | +step2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |                               |
|                                                                                                                                                                                                                        |       | <b>step1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   |                               |
| 6                                                                                                                                                                                                                      |       | START T_dly(180000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |                               |
| 7                                                                                                                                                                                                                      |       | START T_dly2(C_T_T3212min)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   | 5min.45s.                     |
| 8                                                                                                                                                                                                                      |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |   |                               |
| 9                                                                                                                                                                                                                      |       | +StartCellA(C_E_default, C_Immss, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_1, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_02, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment)                                                                                                                                                                                                                                                                                                        |      |   | 1)                            |
| 10                                                                                                                                                                                                                     |       | ?TIMEOUT T_dly2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   | 2)                            |
| 11                                                                                                                                                                                                                     |       | +MM_LUPper2(30000, C_periodic_updating, C_MCC_1, C_PLMN_1, TCV_lac, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   | 6min.15.                      |
| 12                                                                                                                                                                                                                     |       | +ChanRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   |                               |
|                                                                                                                                                                                                                        |       | <b>step2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   |                               |
| 13                                                                                                                                                                                                                     |       | +StartCellA(C_E_default, C_Immss, 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,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   | 3)                            |

|                                                                                                                                                                                                                                    |  |                                                           |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------|--|--|--|
| 19                                                                                                                                                                                                                                 |  | C_PLMN_1, TCV_lac, TimingAdv(30))<br>+ChanRel_end(TCV_ch) |  |  |  |
| <b>Detailed Comments:</b><br>1) Reducing of the timer T3212<br>2) MS shall use the new value of T3212 for periodic updating.<br>3) MS shall start the periodic location updating between 0 sec. and 6min after switching on of MS. |  |                                                           |  |  |  |

### Test Case Dynamic Behaviour

|                        |                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_26_7_4_5_2                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Group:</b>          | GSM_L3_MS_v4180/MM/                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Purpose:</b>        | To verify that the MS stops and resets the timer T3212 of the periodic location updating procedure when: <ul style="list-style-type: none"> <li>- the first MM-message is received in the case of MM-connection establishment, ciphering mode being not set,</li> <li>- the MS has responded to paging and the first correct L3 message is received that is not an RR message</li> </ul> |
| <b>Default:</b>        | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Comments:</b>       | Initial Conditions of MS:<br>The MS has valid TMSI and CKSN. It is "idle updated" on cell A.<br><br>Foreseen final state of the MS:<br>The MS has valid TMSI and CKSN. It is "idle updated" on cell A.                                                                                                                                                                                   |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CRef                                                                                                                    | V   | Comments                |
|----|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| 1  |       | START T_guard(1800)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                         |     |                         |
| 2  |       | +BasicServiceMO(TSPX_MOBscSvcF, TSPX_MOChRateF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                         |     |                         |
| 3  |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_2, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noReestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                                                                                                         |     |                         |
| 4  | body  | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                         |     |                         |
| 5  |       | START T_dly(705000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                         |     |                         |
| 6  |       | L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ChReq(ChRequest_02)                                                                                                     |     |                         |
| 7  |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                         |     | To match ChReq retrans. |
| 8  |       | L!DL_UdatRqImmass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(30))) |     |                         |
| 9  |       | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CMSerReq(CMServiceReq_01)                                                                                               | (P) |                         |
| 10 |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                         |     | Restore Normal default  |
| 11 |       | L!DL_DatRqCmsRej                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CMSerRej(TCV_ch, CMServiceRej_30(C_rc_networkfailure))                                                                  |     |                         |
| 12 |       | +ChanRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                         |     |                         |
| 13 |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                         |     |                         |
| 14 |       | +local_continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                         |     |                         |
|    |       | <b>local_continue</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                         |     |                         |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                         |     |                         |
|    |       | <b>ltree_continue1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                         |     |                         |
| 20 |       | L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PgReq1(TCV_PgCh, TCV_Pgg,                                                                                               |     |                         |

|                                                                          |                                                                                             |                                                                                                                                        |                         |
|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 21                                                                       | L?DL_RaInChRq ( TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)           | PgReqTp1_30(Milmsi_01))<br>ChReq(ChRequest_17)                                                                                         |                         |
| 22                                                                       | ACTIVATE(OtherEventsFail_02)                                                                |                                                                                                                                        | To match ChReq retrans. |
| 23                                                                       | LIDL_UdatRqImmass                                                                           | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV_Rr, TCV_Fn,<br>TSPX_SDCCH4SubDef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(30))) |                         |
| 24                                                                       | L?DL_EstInPgRes                                                                             | PagingRes(PagingRes_01)                                                                                                                |                         |
| 25                                                                       | ACTIVATE(OtherEventsFail)                                                                   |                                                                                                                                        | Restore Normal default  |
| 26                                                                       | +Authentication(TCV_ch, TCV_cks,sn,<br>TSPX_RANDDef)                                        |                                                                                                                                        | 1.                      |
| 27                                                                       | +ChanRel(TCV_ch)                                                                            |                                                                                                                                        | 2.                      |
| 28                                                                       | START T_dly(705000)                                                                         |                                                                                                                                        |                         |
| 29                                                                       | ?TIMEOUT T_dly                                                                              |                                                                                                                                        |                         |
| 30                                                                       | +MM_LUPper2(30000,<br>C_periodic_updating, C_MCC_1,<br>C_PLMN_1, TCV_lac,<br>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:** GSM\_L3\_MS\_v4180/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.  
**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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CRef | V | Comments |
|----|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| 1  |       | START T_guard(1200)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| 2  |       | +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_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_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) |      |   |          |
| 3  |       | +StartCellB(C_E_suitable, C_arfcnB, C_arfcnBd, C_ImmMass, 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_noReestablishment, C_BCC, C_NCC)                                                                                                                                                                                                                                                                  |      |   |          |
| 4  | body  | +Switchcell_A2B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |   |          |
| 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| 12 |       | +MM_LUPper2(30000, C_periodic_updating, C_MCC_1, C_PLMN_2, TCV_lac, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
| 13 |       | +ChanRel_end(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |

**Detailed Comments:**  
 1) MS shall reset the timer T3212 after normal location updating  
 2) MS shall reset the timer T3212 after IMSI attach procedure.

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                       |     |          |
|-----------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_7_4_5_4_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                       |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/MM/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                       |     |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                          |                                                                       |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                       |     |          |
| <b>Comments:</b>            |       | Initial Conditions of MS:<br>The MS is switched off. The HPLMN Search Period on the SIM shall be set to 6 minutes.<br>The Location Area Information on the SIM is deleted.<br><br>Foreseen final state of the MS:<br>The MS has valid TMSI and CKSN. It is "idle updated" on cell A.                                                                                                                                                                                                                                                                                    |                                                                       |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CRef                                                                  | V   | Comments |
| 1                           |       | START T_guard(1020)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                       |     |          |
| 2                           |       | (TCV_Null := OO_SIM2Ins())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                       |     |          |
| 3                           |       | +IdleUpdated(C_E_suitable, 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_01, BcchFreqLst_48, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, C_Start_Rej, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TSPX_IMSI, C_Test_nfh, C_NCCP_2) |                                                                       |     | 1)       |
| 4                           | body  | +MM_PwrOrSimOn(C_SIMneedRmv)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                       |     |          |
| 5                           |       | +MM_LupInit5(C_normal_updating, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                       |     |          |
| 6                           |       | L!DL_DatRqLupAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | LocAcp(TCV_ch, LocUpdtAcp_01(MiMsi_omit, C_MCC_1, C_PLMN_2, TCV_lac)) |     | PLMN2    |
| 7                           |       | +ChanRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                       |     |          |
| 8                           |       | +NoReaction(480000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                       |     |          |
| 9                           |       | +ltree_continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                       |     |          |
|                             |       | <b>ltree_continue</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                       |     |          |
| 10                          |       | +Varinit_fixA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                       |     |          |
| 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)                                                                                                                                                                                                                                                                                                      |                                                                       |     |          |
| 12                          |       | START T_dly(480000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                       |     |          |
| 13                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                       | (F) |          |
| 14                          |       | +MM_LupInit4(C_normal_updating, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                       |     |          |
| 15                          |       | L!DL_DatRqLupAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | LocAcp(TCV_ch, LocUpdtAcp_01(MiMsi_omit, C_MCC_1, C_PLMN_1, TCV_lac)) | (P) | PLMN1    |
| 16                          |       | +ChanRel_end(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                       |     |          |
| <b>Detailed Comments:</b>   |       | 1) Initial condition: LAI deleted, HPLMNsearchperiod=6min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                       |     |          |

### Test Case Dynamic Behaviour

**Test Case Name:** TC\_26\_7\_4\_5\_4\_2  
**Group:** GSM\_L3\_MS\_v4180/MM/  
**Purpose:** To verify that no HPLMN Search is performed when the MS is not in automatic mode  
**Default:** OtherEventsFail  
**Comments:** Initial Conditions of MS:  
 The MS is switched off. The HPLMN Search Period on the SIM shall be set to 6 minutes.  
 The Location Area Information on the SIM is deleted.

Foreseen final state of the MS:  
 The MS has valid TMSI and CKSN. It is "idle updated" on cell B.

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CRef                                                                   | V | Comments |
|----|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|---|----------|
| 1  |       | START T_guard(420)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                        |   |          |
| 2  |       | (TCV_Null := OO_SIM2Ins())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                        |   |          |
| 3  |       | +IdleUpdated(C_E_suitable, 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_01, BcchFreqLst_48, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, C_Start_Rej, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TSPX_IMSI, C_Test_nfh, C_NCCP_2) |                                                                        |   | 1)       |
| 4  | body  | +MM_PwrOrSimOn(C_SIMneedRmv)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                        |   |          |
| 5  |       | +MM_LupInit5(C_normal_updating, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                        |   |          |
| 6  |       | L!DL_DatRqLupAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | LocAcp(TCV_ch, LocUpdtAcp_01(MiMs i_omit, C_MCC_1, C_PLMN_2, TCV_lac)) |   | PLMN2    |
| 7  |       | +ChanRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                        |   |          |
| 8  |       | +ltree_continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                        |   |          |
| 9  |       | <b>ltree_continue</b><br>(TCV_Null := OO_PLMNselModeMan())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                        |   | 2)       |
| 10 |       | +Varinit_fixA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                        |   |          |
| 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 |       | +NoReaction(420000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                        |   |          |

**Detailed Comments:**

- 1) Initial condition: LAI deleted, HPLMN searchperiod = 6min
- 2) MS in manual mode.
- 3) made cell A available.



| Test Case Dynamic Behaviour                                                                                                                                                                 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                        |     |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-----|----------|
| <b>Test Case Name:</b> TC_26_7_4_5_4_3                                                                                                                                                      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                        |     |          |
| <b>Group:</b> GSM_L3_MS_v4180/MM/                                                                                                                                                           |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                        |     |          |
| <b>Purpose:</b> To verify that the MS waits at least 2 minutes and at most T minutes before attempting its first HPLMN Search.                                                              |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                        |     |          |
| <b>Default:</b> OtherEventsFail                                                                                                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                        |     |          |
| <b>Comments:</b> Initial Conditions of MS:<br>The MS is switched off. The HPLMN Search Period on the SIM shall be set to 6 minutes.<br>The Location Area Information on the SIM is deleted. |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                        |     |          |
| Foreseen final state of the MS:<br>The MS has valid TMSI and CKSN. It is "idle updated" on cell A.                                                                                          |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                        |     |          |
| Nr                                                                                                                                                                                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CRef                                                                   | V   | Comments |
| 1                                                                                                                                                                                           |       | START T_guard(480)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                        |     |          |
| 2                                                                                                                                                                                           |       | (TCV_Null := OO_SIM2Ins())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                        |     |          |
| 3                                                                                                                                                                                           |       | +IdleUpdated(C_E_suitable, 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_01, BcchFreqLst_48, BcchFreqLst_48, C_noRestablishment, C_BCC, C_NCC, C_Start_Rej, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB, C_arfcnBd, TSPX_IMSI, C_Test_nfh, C_NCCP_2) |                                                                        |     | 1)       |
| 4                                                                                                                                                                                           | body  | +MM_PwrOrSimOn(C_SIMneedRmv)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                        |     |          |
| 5                                                                                                                                                                                           |       | +MM_LupInit5(C_normal_updating, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                        |     |          |
| 6                                                                                                                                                                                           |       | L!DL_DatRqLupAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | LocAcp(TCV_ch, LocUpdtAcp_01(MiMs_i_omit, C_MCC_1, C_PLMN_2, TCV_lac)) |     | PLMN2    |
| 7                                                                                                                                                                                           |       | +ChanRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                        |     |          |
| 8                                                                                                                                                                                           |       | +ltree_continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                        |     |          |
|                                                                                                                                                                                             |       | <b>ltree_continue</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                        |     |          |
| 9                                                                                                                                                                                           |       | +Varinit_fixA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                        |     |          |
| 10                                                                                                                                                                                          |       | +StartCellA(C_E_default, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_1, CellChDes_02, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment)                                                                                                                                                                                                                                                                                                      |                                                                        |     | 2)       |
| 11                                                                                                                                                                                          |       | +NoReaction(120000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                        |     |          |
| 12                                                                                                                                                                                          |       | START T_dly(360000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                        |     |          |
| 13                                                                                                                                                                                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                        |     | 3)       |
| 14                                                                                                                                                                                          |       | +MM_LupInit6(C_normal_updating, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                        | (F) |          |
| 15                                                                                                                                                                                          |       | L!DL_DatRqLupAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | LocAcp(TCV_ch, LocUpdtAcp_01(MiMs_i_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

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_26_7_4_6                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Group:</b>          | GSM_L3_MS_v4180/MM/                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Purpose:</b>        | 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.<br>2) To check that the PLU timer is not disturbed by cells of forbidden PLMNs.<br>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. |
| <b>Default:</b>        | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Comments:</b>       | Initial Conditions of MS:<br>The MS is deactivated. The PLMN of cell B is entered in the SIM's forbidden PLMN list.<br><br>Foreseen final state of the MS:<br>The MS is "idle updated". The PLMN of cell B is entered in the SIM's forbidden PLMN list.                                                                                                                                                                |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CRef | V   | Comments |
|----|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|----------|
| 1  |       | START T_guard(2100)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |     |          |
| 2  |       | +IdleUpdated(C_E_suitable, C_CellB, C_SCH_B, C_BCCH_B_1, C_Immss, 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) |      |     | PR 1)    |
| 3  |       | +Varinit_fixA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |     |          |
| 4  |       | +StartCellA(C_E_default, C_Immss, 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_01, CellChDes_03, BcchFreqLst_01, BcchFreqLst_48, C_noRestablishment)                                                                                                                                                                                                                                                                                                          |      |     |          |
| 5  |       | +MM_LUP(MiTmsi_01iei, Milmsi_01, C_MCC_1, C_PLMN_2, C_PLMN_1, C_lacdeleted, C_LAC_1, C_normal_updating, C_cksnokey, TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |     | PR 2)    |
| 6  |       | +MM_PwrOrSimOff(C_SIMneedRmv)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |     |          |
| 7  |       | +ltree_StartCellAandB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |     |          |
| 8  | body  | +ltree_body1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |     |          |
| 9  |       | +ltree_body2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |     |          |
| 10 |       | +ltree_body3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |     |          |
| 11 |       | +RmvForbiddenPlmn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |     |          |
|    |       | <b>ltree_body1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |     |          |
| 12 |       | +MM_PwrOrSimOn(C_SIMneedRmv)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |     |          |
| 13 |       | (TCV_Null := OO_PLMNselModeAuto())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |     | 1)       |
| 14 |       | START T_dly1(C_T_Wait1stChReq)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |     |          |
| 15 |       | +ltree_perluprest(C_imsi_attach)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |     | 2)       |
| 16 |       | START T_dly1(705000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |     | 3)       |
| 17 |       | +NoReaction(60000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |     |          |
| 18 |       | (TCV_Null := OM_StopCell(C_CellA))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |     |          |
| 19 |       | +NoReaction(420000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |     |          |
| 20 |       | +ltree_StartCellAandB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |     |          |
| 21 |       | ?TIMEOUT T_dly1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | (P) | 3)       |
|    |       | <b>ltree_body2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |     |          |
| 22 |       | START T_dly1(30000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |     |          |
| 23 |       | +ltree_perluprest(C_periodic_updating)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |     | 4)       |
| 24 |       | +NoReaction(180000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |     |          |
| 25 |       | (TCV_Null := OM_StopCell(C_CellA))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |     |          |

|                           |                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |                         |
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| 26                        | <b>ltree_body3</b><br>+NoReaction(660000)                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     | 5)                      |
| 27                        | +ltree_StartCellAandB                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |                         |
| 28                        | (TCV_Null := OM_StopCell(C_CellB))                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |                         |
| 29                        | START T_dly1(180000)                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |                         |
| 30                        | +ltree_perluprest(C_periodic_updating)                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     | 6)                      |
| 31                        | <b>ltree_perluprest(locup:B_2)</b><br>L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)<br>CANCEL T_dly1                                                                                                                                                                                     | ChReq(ChRequest_0<br>2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (P) |                         |
| 32                        | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     | To match ChReq retrans. |
| 33                        | !DL_UdatRqImmass                                                                                                                                                                                                                                                                                                            | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(30)))                                                                                                                                                                                                                                                                                                                                            |     |                         |
| 34                        | L?DL_EstInLupRq                                                                                                                                                                                                                                                                                                             | LocUp(TCV_ch,<br>LocUpdtReq_01(C_p<br>eriodic_updating))                                                                                                                                                                                                                                                                                                                                                                                                                                  | (P) |                         |
| 35                        | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     | Restore Normal default  |
| 36                        | !DL_DatRqLupAcp                                                                                                                                                                                                                                                                                                             | LocAcp(TCV_ch,<br>LocUpdtAcp_01(MiMs<br>i_omit, C_MCC_1,<br>C_PLMN_1,<br>TCV_lac))                                                                                                                                                                                                                                                                                                                                                                                                        |     |                         |
| 37                        | +ChanRel(TCV_ch)                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |                         |
| 38                        | ?TIMEOUT T_dly1                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (F) |                         |
| 39                        | <b>ltree_StartCellAandB</b><br>+StartCellA(C_E_default, C_Immass, TCV_slot,<br>TCV_tsc, TimingAdv(30), C_TxInt_5, C_Max_1,<br>C_NECI_0, C_ATT_1, C_BABR_0, C_cch_1Comb,<br>C_BPM_3, C_T3212_2, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellChDes_01, CellChDes_03,<br>BcchFreqLst_01, BcchFreqLst_48,<br>C_noRestablishment)         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |                         |
| 40                        | +StartCellB(C_E_suitable, C_arfcnB, C_arfcnBd,<br>C_Immass, TCV_slot, TCV_tsc, TimingAdv(30),<br>C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1,<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_1, C_MCC_1, C_PLMN_2, C_LAC_2,<br>CellChDes_04, CellChDes_03, BcchFreqLst_01,<br>BcchFreqLst_48, C_noRestablishment, C_BCC,<br>C_NCC) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |                         |
| <b>Detailed Comments:</b> |                                                                                                                                                                                                                                                                                                                             | PR1) Initial condition: The PLMN of cell B is entered in the SIM's forbidden PLMN list.<br>PR2) Initial condition: Idle updated in cell A.                                                                                                                                                                                                                                                                                                                                                |     |                         |
|                           |                                                                                                                                                                                                                                                                                                                             | 1) MS enters in automatic network selection mode.<br>2) IMSI attach procedure<br>3) Conformance Requirement 1<br>Delay for 11 min and 40 seconds. In this time MS may not location update in cell A.<br>4) The MS shall execute the periodic location updating after 12 min.<br>5) Conformance Requirement 5<br>No Reaction in 7 min. In this time MS may not location update in cell B.<br>6) The MS shall execute the periodic location updating before 17 min after last periodic LUP. |     |                         |
|                           |                                                                                                                                                                                                                                                                                                                             | PS1) Final postamble: The PLMN of cell B is suppressed on the SIM's forbidden PLMN list.                                                                                                                                                                                                                                                                                                                                                                                                  |     |                         |

| Test Case Dynamic Behaviour                                                                                                                                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                |     |                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| <b>Test Case Name:</b> TC_26_7_5_2                                                                                                                                     |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                |     |                         |
| <b>Group:</b> GSM_L3_MS_v4180/MM/                                                                                                                                      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                |     |                         |
| <b>Purpose:</b> 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. |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                |     |                         |
| <b>Default:</b> OtherEventsFail                                                                                                                                        |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                |     |                         |
| <b>Comments:</b> Initial Conditions of MS:<br>The MS has valid TMSI. It is "idle updated".<br>Expected values in the SIM card: TMSI: MiTmsi_01, CKSN: TSPX_CKSNDf      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                |     |                         |
| Foreseen final state of the MS:<br>The MS has valid TMSI and CKSN.It is "idle updated".                                                                                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                |     |                         |
| Nr                                                                                                                                                                     | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | CRef                                                                                                                                           | V   | Comments                |
| 1                                                                                                                                                                      |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                |     |                         |
| 2                                                                                                                                                                      |       | +BasicServiceMO(TSPX_MOBscSvcH,<br>TSPX_MOChRateH)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                |     |                         |
| 3                                                                                                                                                                      |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_ImmAs, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_02,<br>CellChDes_03, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_01, BcchFreqLst_Omit,<br>BcchFreqLst_48, BcchFreqLst_Omit,<br>C_noReestablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                                                                                                                                |     |                         |
| 4                                                                                                                                                                      |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                |     |                         |
| 5                                                                                                                                                                      |       | L?DL_RaInChRq (TCV_Rr :=<br>DL_RaInChRq.msg.ecau_rrf, TCV_Fn :=<br>DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ChReq(ChRequest_0<br>2)                                                                                                                        |     |                         |
| 6                                                                                                                                                                      |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                |     | To match ChReq retrans. |
| 7                                                                                                                                                                      |       | L!DL_UdatRqImmAs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(30))) |     |                         |
| 8                                                                                                                                                                      |       | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CMSerReq(CMServic<br>eReq_32(MiTmsi_01,<br>TSPX_CKSNDf))                                                                                       | (P) |                         |
| 9                                                                                                                                                                      |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                |     | Restore Normal default  |
| 10                                                                                                                                                                     |       | +Authentication(TCV_ch,<br>TCV_cks, TSPX_RANDDef)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                |     |                         |
| 11                                                                                                                                                                     |       | +Ciphering_on(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                |     |                         |
| 12                                                                                                                                                                     |       | +Itree_CMmsgs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                |     |                         |
| 13                                                                                                                                                                     |       | +ChanRel_end(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                |     |                         |
| 14                                                                                                                                                                     |       | <b>Itree_CMmsgs</b><br>+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup,<br>TCV_Ecall)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                |     |                         |
| 15                                                                                                                                                                     |       | L!DL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | RelComSnd(TCV_ch,<br>ReleaseCmp_04(TCV<br>_TI))                                                                                                | (P) |                         |
| 16                                                                                                                                                                     |       | L?DL_DatInRegister (TCV_TI :=<br>DL_DatInRegister.msg.ti, TCV_TI.ti_f := '1'B)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Register_01(TCV_ch,<br>RegisterPdu_01)                                                                                                         |     |                         |
| 17                                                                                                                                                                     |       | L!DL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | RelComSnd(TCV_ch,<br>ReleaseCmp_08(TCV<br>_TI))                                                                                                |     |                         |
| 18                                                                                                                                                                     |       | L?DL_DatInCpData (TCV_Rpmr :=<br>DL_DatInCpData.msg.CPdata.rpmr, TCV_TI0<br>:= DL_DatInCpData.msg.ti, TCV_TI.ti_v :=<br>TCV_TI0.ti_v, TCV_TI.ti_f := '1'B)                                                                                                                                                                                                                                                                                                                                                                                                                                                      | DatInCpData(TCV_ch<br>, CpDataPdu_04)                                                                                                          |     |                         |
| 19                                                                                                                                                                     |       | L!DL_DatRqCpDataAck                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | DatRqCpDataAck(Cp<br>DataAckPdu_03(TCV                                                                                                         |     |                         |

|                           |  |                     |                                                                                                            |     |  |
|---------------------------|--|---------------------|------------------------------------------------------------------------------------------------------------|-----|--|
| 20                        |  | L!DL_DatRqCpData    | _TI), TCV_ch)<br>DatRqCpData(CpDat<br>aPdu_02(TI_08(TCV_<br>TI.ti_v),<br>CpData_04(TCV_Rp<br>mr)), TCV_ch) |     |  |
| 21                        |  | L?DL_DatInCpDataAck | DatInCpDataAck(CpD<br>ataAckPdu_02(TI_07(<br>TCV_TI0.ti_v))                                                | (P) |  |
| <b>Detailed Comments:</b> |  |                     |                                                                                                            |     |  |

| Test Case Dynamic Behaviour                                                                                                                                                       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                |     |                         |
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| <b>Test Case Name:</b> TC_26_7_5_3                                                                                                                                                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                |     |                         |
| <b>Group:</b> GSM_L3_MS_v4180/MM/                                                                                                                                                 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                |     |                         |
| <b>Purpose:</b> 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.            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                |     |                         |
| <b>Default:</b> OtherEventsFail                                                                                                                                                   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                |     |                         |
| <b>Comments:</b> Initial Conditions of MS:<br>The MS has valid TMSI. It is "idle updated".<br><br>Foreseen final state of the MS:<br>The MS has valid TMSI. It is "idle updated". |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                |     |                         |
| Nr                                                                                                                                                                                | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CRef                                                                                                                                           | V   | Comments                |
| 1                                                                                                                                                                                 |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                |     |                         |
| 2                                                                                                                                                                                 |       | +BasicServiceMO(TSPX_MOBscSvcG,<br>TSPX_MOChRateG)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                |     |                         |
| 3                                                                                                                                                                                 |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_02,<br>CellChDes_03, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_01, BcchFreqLst_Omit,<br>BcchFreqLst_48, BcchFreqLst_Omit,<br>C_noRestablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                                                                                                                                |     |                         |
| 4                                                                                                                                                                                 |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                |     |                         |
| 5                                                                                                                                                                                 |       | L?DL_RaInChRq (TCV_Rr :=<br>DL_RaInChRq.msg.ecau_rrf, TCV_Fn :=<br>DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ChReq(ChRequest_0<br>2)                                                                                                                        |     |                         |
| 6                                                                                                                                                                                 |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                |     | To match ChReq retrans. |
| 7                                                                                                                                                                                 |       | L!DL_UdatRqImmass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(30))) |     |                         |
| 8                                                                                                                                                                                 |       | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CMSerReq(CMServic<br>eReq_01)                                                                                                                  | (P) |                         |
| 9                                                                                                                                                                                 |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                |     | Restore Normal default  |
| 10                                                                                                                                                                                |       | L!DL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CMSerAcp(TCV_ch,<br>CMSerAcp_01)                                                                                                               |     |                         |
| 11                                                                                                                                                                                |       | +ltree_msgs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                |     |                         |
| 12                                                                                                                                                                                |       | +ChanRel_end(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                |     |                         |
| 13                                                                                                                                                                                |       | <b>ltree_msgs</b><br>+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup,<br>TCV_Ecall)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                |     |                         |
| 14                                                                                                                                                                                |       | L?DL_DatInRegister                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Register_01(TCV_ch,<br>RegisterPdu_01)                                                                                                         | (P) |                         |
| 15                                                                                                                                                                                |       | L?DL_DatInCpData (TCV_Rpmr :=<br>DL_DatInCpData.msg.CPdata.rpdata.rpmr, TCV_TI0<br>:= DL_DatInCpData.msg.ti, TCV_TI := TCV_TI0,<br>TCV_TI.ti_f := '1'B)                                                                                                                                                                                                                                                                                                                                                                                                                                                           | DatInCpData(TCV_ch<br>, CpDataPdu_04)                                                                                                          |     |                         |
| 16                                                                                                                                                                                |       | L!DL_DatRqCpDataAck                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DatRqCpDataAck(Cp<br>DataAckPdu_03(TCV<br>_TI), TCV_ch)                                                                                        |     |                         |
| 17                                                                                                                                                                                |       | L!DL_DatRqCpData                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | DatRqCpData(CpDat<br>aPdu_02(TI_08(TCV<br>_TI.ti_v),<br>CpData_04(TCV_Rp<br>mr)), TCV_ch)                                                      |     |                         |
| 18                                                                                                                                                                                |       | L?DL_DatInCpDataAck                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DatInCpDataAck(CpD<br>ataAckPdu_02(TI_07(<br>TCV_TI0.ti_v)))                                                                                   | (P) |                         |

## Detailed Comments:

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                |     |                         |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| <b>Test Case Name:</b>      |       | TC_26_7_5_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                |     |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/MM/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                |     |                         |
| <b>Purpose:</b>             |       | To verify that the MS does not send a layer 3 message when the service request is rejected by the SS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                |     |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                |     |                         |
| <b>Comments:</b>            |       | Initial Conditions of MS:<br>The MS has valid TMSI. It is "idle updated".<br><br>Foreseen final state of the MS:<br>The MS has valid TMSI. It is "idle updated".                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                |     |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | CRef                                                                                                                                           | V   | Comments                |
| 1                           |       | START T_guard(420)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                |     |                         |
| 2                           |       | +BasicServiceMO(TSPX_MOBscSvcB,<br>TSPX_MOChRateB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                |     |                         |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_ImmAss, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECl_0, C_ATT_0, TimingAdv(30),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_02,<br>CellChDes_03, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_01, BcchFreqLst_Omit,<br>BcchFreqLst_48, BcchFreqLst_Omit,<br>C_noRestablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                                                                                                                                |     |                         |
| 4                           |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                |     |                         |
| 5                           |       | L?DL_RacInChRq (TCV_Rr :=<br>DL_RacInChRq.msg.ecau_rrf, TCV_Fn :=<br>DL_RacInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ChReq(ChRequest_0<br>2)                                                                                                                        |     |                         |
| 6                           |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                |     | To match ChReq retrans. |
| 7                           |       | L!DL_UdatRqImmAss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(30))) |     |                         |
| 8                           |       | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CMSerReq(CMServic<br>eReq_01)                                                                                                                  | (P) |                         |
| 9                           |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                |     | Restore Normal default  |
| 10                          |       | L!DL_DatRqCmsRej                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CMSerRej(TCV_ch,<br>CMSerRej_30(C_<br>rc_reqservoptnotsub))                                                                                    |     |                         |
| 11                          |       | +NoReaction(5000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                |     |                         |
| 12                          |       | +ChanRel_end(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                |     |                         |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                |     |                         |

| Test Case Dynamic Behaviour                                                                                                                                       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                |     |                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| <b>Test Case Name:</b> TC_26_7_5_5                                                                                                                                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                |     |                         |
| <b>Group:</b> GSM_L3_MS_v4180/MM/                                                                                                                                 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                |     |                         |
| <b>Purpose:</b> To verify that the MS can correctly accept a CM SERVICE REJECT message with reject cause "IMSI unknown in VLR".                                   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                |     |                         |
| <b>Default:</b> OtherEventsFail                                                                                                                                   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                |     |                         |
| <b>Comments:</b> Initial Conditions of MS:<br>The MS has valid TMSI. It is "idle updated".<br>Expected values in the SIM card: TMSI: MiTmsi_01, CKSN: TSPX_CKSNDf |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                |     |                         |
| Foreseen final state of the MS:<br>The MS has valid TMSI and CKSN. It is "idle updated".                                                                          |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                |     |                         |
| Nr                                                                                                                                                                | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CRef                                                                                                                                           | V   | Comments                |
| 1                                                                                                                                                                 |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                |     |                         |
| 2                                                                                                                                                                 |       | +BasicServiceMO(TSPX_MOBscSvcE,<br>TSPX_MOChRateE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                |     |                         |
| 3                                                                                                                                                                 |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immasc, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_02,<br>CellChDes_03, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_01, BcchFreqLst_Omit,<br>BcchFreqLst_48, BcchFreqLst_Omit,<br>C_noReestablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                                                                                                                                |     |                         |
| 4                                                                                                                                                                 |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                |     |                         |
| 5                                                                                                                                                                 |       | L?DL_RaInChRq (TCV_Rr :=<br>DL_RaInChRq.msg.ecau_rrf, TCV_Fn :=<br>DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ChReq(ChRequest_0<br>2)                                                                                                                        |     |                         |
| 6                                                                                                                                                                 |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                |     | To match ChReq retrans. |
| 7                                                                                                                                                                 |       | L!DL_UdatRqImmasc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(30))) |     |                         |
| 8                                                                                                                                                                 |       | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CMSerReq(CMServic<br>eReq_32(MiTmsi_01,<br>TSPX_CKSNDf))                                                                                       | (P) | 1.                      |
| 9                                                                                                                                                                 |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                |     | Restore Normal default  |
| 10                                                                                                                                                                |       | LIDL_DatRqCmsRej                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CMSerRej(TCV_ch,<br>CMSerRej_30(<br>C_rc_imsiunknownvlr<br>)                                                                                   |     |                         |
| 11                                                                                                                                                                |       | +ChanRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                |     | 2.                      |
| 12                                                                                                                                                                |       | +MM_LUPauth2(MiTmsi_01iei,<br>MiTmsi_01, C_MCC_1,<br>C_PLMN_1, C_lacdeleted,<br>TCV_lac, C_normal_updating,<br>C_cksnokey, TCV_cksno,<br>TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                |     | 3.                      |
| 13                                                                                                                                                                |       | +ChanRel_end(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                |     |                         |
| <b>Detailed Comments:</b>                                                                                                                                         |       | 1. Conformance Requirement<br>The MS shall be able to correctly set up an MM connection in a Mobile Originating CM connection attempt.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                |     |                         |
|                                                                                                                                                                   |       | 2. Conformance Requirement<br>The MS shall wait for the network to release the RR connection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                |     |                         |
|                                                                                                                                                                   |       | 3. Conformance Requirement<br>The MS shall be able to perform a location updating procedure.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                |     |                         |



| Test Case Dynamic Behaviour                                                                                                                                                       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                |     |                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| <b>Test Case Name:</b> TC_26_7_5_6                                                                                                                                                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                |     |                         |
| <b>Group:</b> GSM_L3_MS_v4180/MM/                                                                                                                                                 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                |     |                         |
| <b>Purpose:</b> To verify that at T3230 expiry, the MS aborts the MM-connection establishment.                                                                                    |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                |     |                         |
| <b>Default:</b> OtherEventsFail                                                                                                                                                   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                |     |                         |
| <b>Comments:</b> Initial Conditions of MS:<br>The MS has valid TMSI. It is "idle updated".<br><br>Foreseen final state of the MS:<br>The MS has valid TMSI. It is "idle updated". |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                |     |                         |
| Nr                                                                                                                                                                                | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CRef                                                                                                                                           | V   | Comments                |
| 1                                                                                                                                                                                 |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                |     |                         |
| 2                                                                                                                                                                                 |       | +BasicServiceMO(TSPX_MOBscSvcJ,<br>TSPX_MOChRateJ)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                |     |                         |
| 3                                                                                                                                                                                 |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCCH_A_1, C_ImmMass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECL_0, C_ATT_0, TimingAdv(30),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_02,<br>CellChDes_03, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_01, BcchFreqLst_Omit,<br>BcchFreqLst_48, BcchFreqLst_Omit,<br>C_noReestablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                                                                                                                                |     |                         |
| 4                                                                                                                                                                                 |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                |     |                         |
| 5                                                                                                                                                                                 |       | L?DL_RaInChRq (TCV_Rr :=<br>DL_RaInChRq.msg.ecau_rrf, TCV_Fn :=<br>DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ChReq(ChRequest_0<br>2)                                                                                                                        |     |                         |
| 6                                                                                                                                                                                 |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                |     | To match ChReq retrans. |
| 7                                                                                                                                                                                 |       | L!DL_UdatRqImmMass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(30))) |     |                         |
| 8                                                                                                                                                                                 |       | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CMSerReq(CMServic<br>eReq_01)                                                                                                                  | (P) |                         |
| 9                                                                                                                                                                                 |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                |     | Restore Normal default  |
| 10                                                                                                                                                                                |       | +NoReaction(C_T_T3230min)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                |     |                         |
| 11                                                                                                                                                                                |       | L?DL_DatInMmst                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | MMSt(MMstatus_03)                                                                                                                              | (P) | 1.                      |
| 12                                                                                                                                                                                |       | +ChanRel_end(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                |     |                         |
| <b>Detailed Comments:</b> 1. The MS shall abort the MM connection after T3230 expiry.                                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                |     |                         |

### Test Case Dynamic Behaviour

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_26_7_5_7_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Group:</b>          | GSM_L3_MS_v4180/MM/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purpose:</b>        | To check that upon reception of an ABORT message with cause #6 during call establishment: <ul style="list-style-type: none"> <li>- the MS does not send any layer 3 message.</li> <li>- 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.</li> <li>- 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.</li> <li>- the MS accepts a request for emergency call.</li> </ul> |
| <b>Default:</b>        | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Comments:</b>       | Initial Conditions of MS:<br>The MS has valid TMSI, CKSN and Kc.It is "idle updated on cell B".<br><br>Foreseen final state of the MS:<br>The MS has valid TMSI. It is "idle updated" on cell A.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CRef                                                                                                                                           | V   | Comments                |
|----|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| 1  |       | START T_guard(600)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                |     |                         |
| 2  |       | +BasicServiceMO(TSPX_MOBscSvcA,<br>TSPX_MOChRateA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                |     |                         |
| 3  |       | +IdleUpdated(C_E_default, C_CellB, C_SCH_B,<br>C_BCCH_B_1, C_Immasc, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellB, C_MCC_1, C_PLMN_1,<br>C_LAC_2, CellOpt_01, CellChDes_04,<br>CellChDes_03, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_01, BcchFreqLst_Omit,<br>BcchFreqLst_48, BcchFreqLst_Omit,<br>C_noRestablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDef, TSPX_RANDDef, C_arfcnB,<br>C_arfcnBd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                                                                                                                                |     |                         |
| 4  |       | +StartCellA(C_E_suitable, C_Immasc,<br>TCV_slot, TCV_tsc, TimingAdv(30), C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, C_BABR_0,<br>C_cch_1Comb, C_BPM_3, C_T3212_0,<br>C_MCC_1, C_PLMN_1, C_LAC_1,<br>CellChDes_02, CellChDes_03,<br>BcchFreqLst_01, BcchFreqLst_48,<br>C_noRestablishment)                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                |     |                         |
| 5  |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                |     |                         |
| 6  |       | L?DL_RacInChRq (TCV_Rr :=<br>DL_RacInChRq.msg.ecau_rrf, TCV_Fn :=<br>DL_RacInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ChReq(ChRequest_0<br>2)                                                                                                                        |     |                         |
| 7  |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                |     | To match ChReq retrans. |
| 8  |       | !IDL_UdatRqImmasc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(30))) |     |                         |
| 9  |       | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CMSerReq(CMServic<br>eReq_01)                                                                                                                  | (P) |                         |
| 10 |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                |     | Restore Normal default  |
| 11 |       | +Authentication(TCV_ch,<br>TCV_cks, TSPX_RANDDef)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                |     |                         |
| 12 |       | !IDL_DatRqAbrt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Abort(TCV_ch,<br>Abortmsg_01(C_rc_ill<br>egal_me))                                                                                             |     |                         |
| 13 |       | +ltree_continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                |     |                         |
|    |       | <b>ltree_continue</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                |     |                         |
| 14 |       | +NoReaction(5000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                |     | 1.                      |
| 15 |       | +ChanRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                |     |                         |

|    |                                                                                                                                                   |  |      |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------|--|------|
| 16 | +Switchcell_B2A                                                                                                                                   |  |      |
| 17 | +NoReaction(5000)                                                                                                                                 |  | 2.1. |
| 18 | +NoReaction(420000)                                                                                                                               |  | 2.2. |
| 19 | +MM_no_paging(MiTmsi_01, 3000,<br>TCV_Ccd0B, C_CellB)                                                                                             |  | 2.3. |
| 20 | +ltree_continue1                                                                                                                                  |  |      |
|    | <b>ltree_continue1</b>                                                                                                                            |  |      |
| 21 | +MM_no_cmsservices(3000)                                                                                                                          |  | 2.4. |
| 22 | +MM_check_ecall1(TimingAdv(30), Milmei_01)                                                                                                        |  | 3.   |
| 23 | +ImsiDetachNoReaction(3000, C_SIMneedRmv)                                                                                                         |  | 7.   |
| 24 | +MM_PwrOrSimOn(C_SIMneedRmv)                                                                                                                      |  |      |
| 25 | +MM_LUPauth2(MiTmsi_01iei, Milmsi_01,<br>C_MCC_1, C_PLMN_1, C_lacdeleted,<br>TCV_lac, C_normal_updating,<br>C_cksnokey, TCV_cksno, TimingAdv(30)) |  | 4.   |
| 26 | +ChanRel(TCV_ch)                                                                                                                                  |  |      |

**Detailed Comments:** After ABORT with the cause\_value 'illegal\_me' the MS shall

1. Conformance requirement 1:  
MS shall wait for network command.
2. Conformance requirement 2:
  - 2.1. not perform location updating
  - 2.2. not perform periodic location updating
  - 2.3. not respond to paging with TMSI
  - 2.4. reject any request for MOC establishment with except emergency call.
  - 2.5. not perform IMSI detach.
3. Conformance requirement 3:  
if it support speech, perform emergency call.
4. Conformance requirement 4:  
delete stored LAI, CKSN and TMSI

| Test Case Dynamic Behaviour                                                                                                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                      |     |          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----|----------|
| <b>Test Case Name:</b> TC_26_7_5_7_2                                                                                                                                                                                                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                      |     |          |
| <b>Group:</b> GSM_L3_MS_v4180/MM/                                                                                                                                                                                                                                                                |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                      |     |          |
| <b>Purpose:</b> 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. |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                      |     |          |
| <b>Default:</b> OtherEventsFail                                                                                                                                                                                                                                                                  |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                      |     |          |
| <b>Comments:</b> Initial Conditions of MS:<br>The MS is in state U10 of a mobile terminating call.<br><br>Foreseen final state of the MS:<br>The MS has valid TMSI. It is "idle updated" on cell A.                                                                                              |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                      |     |          |
| Nr                                                                                                                                                                                                                                                                                               | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                                                                 | V   | Comments |
| 1                                                                                                                                                                                                                                                                                                |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                      |     |          |
| 2                                                                                                                                                                                                                                                                                                |       | +BasicServiceMT(TSPX_MTBscSvcC,<br>TSPX_MTChRateC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                      |     |          |
| 3                                                                                                                                                                                                                                                                                                |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_02,<br>CellChDes_03, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_01, BcchFreqLst_Omit,<br>BcchFreqLst_48, BcchFreqLst_Omit,<br>C_noReestablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDDef, TSPX_RANDDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                                                                      |     |          |
| 4                                                                                                                                                                                                                                                                                                |       | +CCConfigTCH(TSPX_TCHHSubDef, C_Ass,<br>TSPX_TmSlitDef, TSPX_TscDef,<br>TimingAdv(30), C_BABR_0, C_cch_1Comb,<br>C_BPM_3, TCV_ChMod.mode, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                      |     |          |
| 5                                                                                                                                                                                                                                                                                                |       | +PreEnterCCstateU10_late(TCV_Setup_mt,<br>TSPX_TmSlitDef, TSPX_TscDef,<br>TimingAdv(30))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                      |     |          |
| 6                                                                                                                                                                                                                                                                                                | body  | +InitNonCallSupp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                      |     | 1.       |
| 7                                                                                                                                                                                                                                                                                                |       | L?DL_DatInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CMSerDatReq(CMSer<br>viceReq_08)                                                     | (P) |          |
| 8                                                                                                                                                                                                                                                                                                |       | L!DL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CMSerAcp(TCV_chTc<br>h, CMSerAcp_01)                                                 |     |          |
| 9                                                                                                                                                                                                                                                                                                |       | L?DL_DatInRegister                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Register_01(TCV_ch<br>Tch, RegisterPdu_01)                                           |     |          |
| 10                                                                                                                                                                                                                                                                                               |       | L!DL_DatRqAbrt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Abort(TCV_chTch,<br>Abortmsg_01(C_rc_n<br>etworkfailure))                            |     | 2.       |
| 11                                                                                                                                                                                                                                                                                               |       | L!DL_DatRqDisc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | DiscSnd(TCV_chTch,<br>DisconnS(TI_02,<br>Cause_01,<br>ProgInd_omit,<br>UuInfo_omit)) |     |          |
| 12                                                                                                                                                                                                                                                                                               |       | L?DL_DatInRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RelComRcv(Release<br>CmpRcv(TI_01,<br>Cause_07))                                     | (P) |          |
| 13                                                                                                                                                                                                                                                                                               |       | +ChanRel_end(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                      |     |          |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                        |       | 1. Initiate a non call related supplementary service.<br>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>               |       | GSM_L3_MS_v4180/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>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                        |   |          |
| <b>Comments:</b>            |       | Initial Conditions of MS:<br>The MS has valid TMSI and is deactivated.<br><br>Foreseen final state of the MS:<br>The MS has valid TMSI. It is "idle updated" on cell A.                                                                                                                                                                                                                                                                                                                                                                                                  |                                                        |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CRef                                                   | V | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                        |   |          |
| 2                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_1, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_Omit, BcchFreqLst_48, BcchFreqLst_Omit, C_noRestablishment, C_BCC, C_NCC, C_Start_TmsiOff, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                                        |   | att=1    |
| 3                           | body  | +ImsiAttachIni(MiTmsi_01, TimingAdv(30), C_MCC_1, C_PLMN_1, C_SIMneedRmv)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                        |   |          |
| 4                           |       | +BasicServiceMO(TSPX_MOBscSvcF, TSPX_MOChRateF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                        |   |          |
| 5                           |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                        |   |          |
| 6                           |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                        |   |          |
| 7                           |       | LIDL_DatRqLupAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | LocAcp(TCV_ch, LocUpdtAcp(C_MCC_1, C_PLMN_1, TCV_lac)) |   | 1.       |
| 8                           |       | +NoReaction(8000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                        |   | 2.       |
| 9                           | post  | +ChanRel_end(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                        |   |          |
| <b>Detailed Comments:</b>   |       | 1. Follow on proceed IE not included.<br>2. MS shall not send any layer 3 message for 8 seconds after reception of Location Updating Acc.                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                        |   |          |

| Test Case Dynamic Behaviour                                                                                                                                                                                                                                                                  |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                           |   |          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|---|----------|
| <b>Test Case Name:</b> TC_26_7_5_8_2                                                                                                                                                                                                                                                         |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                           |   |          |
| <b>Group:</b> GSM_L3_MS_v4180/MM/                                                                                                                                                                                                                                                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                           |   |          |
| <b>Purpose:</b> 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. |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                           |   |          |
| <b>Default:</b> OtherEventsFail                                                                                                                                                                                                                                                              |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                           |   |          |
| <b>Comments:</b> Initial Conditions of MS:<br>The MS has valid TMSI and is deactivated.                                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                           |   |          |
| Foreseen final state of the MS:<br>The MS has valid TMSI. It is "idle updated" on cell A.                                                                                                                                                                                                    |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                           |   |          |
| Nr                                                                                                                                                                                                                                                                                           | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CRef                                                      | V | Comments |
| 1                                                                                                                                                                                                                                                                                            |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                           |   |          |
| 2                                                                                                                                                                                                                                                                                            |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immss, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECl_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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                                           |   | att=1    |
| 3                                                                                                                                                                                                                                                                                            | body  | +ImsiAttachIni(MiTmsi_01, TimingAdv(30), C_MCC_1, C_PLMN_1, C_SIMneedRmv)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                           |   |          |
| 4                                                                                                                                                                                                                                                                                            |       | +BasicServiceMO(TSPX_MOBscSvcl, TSPX_MOChRate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                           |   |          |
| 5                                                                                                                                                                                                                                                                                            |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                           |   |          |
| 6                                                                                                                                                                                                                                                                                            |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                           |   |          |
| 7                                                                                                                                                                                                                                                                                            |       | L!DL_DatRqLupAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | LocAcp(TCV_ch, LocUpdtAcp_02(C_MCC_1, C_PLMN_1, TCV_lac)) |   | 1.       |
| 8                                                                                                                                                                                                                                                                                            |       | [NOT TSPC_followOnReq]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                           |   |          |
| 9                                                                                                                                                                                                                                                                                            |       | +NoReaction(8000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                           |   |          |
| 10                                                                                                                                                                                                                                                                                           |       | +ChanRel_end(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                           |   |          |
| 11                                                                                                                                                                                                                                                                                           |       | [TSPC_followOnReq]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                           |   |          |
| 12                                                                                                                                                                                                                                                                                           |       | +CMsrvcRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                           |   |          |
| 13                                                                                                                                                                                                                                                                                           | post  | +ChanRel_end(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                           |   |          |
| <b>Detailed Comments:</b> 1. Follow on proceed IE included.                                                                                                                                                                                                                                  |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                           |   |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                     |     |          |
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| <b>Test Case Name:</b>      |       | TC_26_7_5_8_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                     |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/MM/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                     |     |          |
| <b>Purpose:</b>             |       | <ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>3) To check that the MS accepts establishment by the network of a new MM connection on the existing RR connection.</li> </ol>                    |                                                                     |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                     |     |          |
| <b>Comments:</b>            |       | Initial Conditions of MS: The MS has valid TMSI and is deactivated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                     |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                                | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                     |     |          |
| 2                           |       | +BasicServiceMT(TSPX_MTBscSvcC,<br>TSPX_MTCbRateC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                     |     |          |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECl_0, C_ATT_1, TimingAdv(30),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_02,<br>CellChDes_03, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_01, BcchFreqLst_Omit,<br>BcchFreqLst_48, BcchFreqLst_Omit,<br>C_noReestablishment, C_BCC, C_NCC,<br>C_Start_TmsiOff, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                                                     |     | att=1    |
| 4                           | body  | +ImsiAttachIni(MiTmsi_01, TimingAdv(30),<br>C_MCC_1, C_PLMN_1, C_SIMneedRmv)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                     |     |          |
| 5                           |       | LIDL_DatRqLupAcp CANCEL T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | LocAcp(TCV_ch,<br>LocUpdtAcp_02(C_M<br>CC_1, C_PLMN_1,<br>TCV_lac)) |     | 1.       |
| 6                           |       | +NoReaction(5000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                     |     | 2.       |
| 7                           |       | LIDL_DatRqSetup                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | SetupSnd(TCV_ch,<br>TCV_Setup_mt)                                   |     |          |
| 8                           |       | L?DL_DatInCallCo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CallCfm(CallConfirm_<br>01(TI_01))                                  | (P) |          |
| 9                           |       | +ChanRel_end(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                     |     |          |
| 10                          |       | L?DL_DatInRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | RelComRcv(Release<br>Cmp_03(TI_01))                                 | (P) |          |
| 11                          |       | +ChanRel_end(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                     |     |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. Follow on proceed IE included.</li> <li>2. MS shall not send any layer 3 message for 5 seconds after reception of Location Updating Acc.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                     |     |          |

## Test Group CC

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                       |   |                         |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_1_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                       |   |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                       |   |                         |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                      |                                                                                                                                       |   |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                       |   |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CRef                                                                                                                                  | V | Comments                |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                       |   |                         |
| 2                           |       | +BasicServiceMOorTelephony(TSPX_MOBscSvcC, TSPX_MOChRateC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                       |   |                         |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Reestablishment, 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_TmSitDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                       |   |                         |
| 5                           | body  | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                       |   |                         |
| 6                           |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ChReq(ChRequest_19)                                                                                                                   |   |                         |
| 7                           |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                       |   | To match ChReq retrans. |
| 8                           |       | LIDL_UdatRqImmass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ImmAss(C_AGCH_A_1, ImmAsgn_nfh(TCV_Rr, TCV_Fn, TCV_chtype, TSPX_TmSitDef, TSPX_TscDef, TimingAdv(0), TCV_tch_arfcn, C_normal_paging)) |   | 1.                      |
| 9                           |       | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CMSerReq(CMServiceReq_04)                                                                                                             |   |                         |
| 10                          |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                       |   | Restore Normal default  |
| 11                          |       | +CheckTIsInStateU0(TRUE, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                       |   |                         |
| 12                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                       |   |                         |
| <b>Detailed Comments:</b>   |       | 1. To assign TCH channel.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                       |   |                         |



| <b>Test Case Dynamic Behaviour</b> |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |   |          |
|------------------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---|----------|
| <b>Test Case Name:</b>             |       | TC_26_8_1_2_2_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |   |          |
| <b>Group:</b>                      |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                   |   |          |
| <b>Purpose:</b>                    |       | 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".                                                                                                                                                                                                                                                                                                                                                                                                   |                                   |   |          |
| <b>Default:</b>                    |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |   |          |
| Nr                                 | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CRef                              | V | 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Reestablishment, 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                                  |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                   |   |          |
| 5                                  |       | +PreEnterCCstateU01_21(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                   |   |          |
| 6                                  | body  | !IDL_DatRqCmsRej                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CMSerRej(TCV_ch, CMServiceRej_01) |   | 2.       |
| 7                                  |       | +CheckTIsInStateU0(TRUE, TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                   |   |          |
| 8                                  |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                   |   |          |
| <b>Detailed Comments:</b>          |       | 1. To select a basic service and channel rate, if the MS supports telephony the selected basic service is telephony.<br>2. To reject the CM-SERVICE REQUEST.                                                                                                                                                                                                                                                                                                                                                                                                         |                                   |   |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                   |     |          |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_2_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                   |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                   |     |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                            |                                   |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                   |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CRef                              | V   | 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_Reestablishment, 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(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                   |     |          |
| 6                           | body  | L!DL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CMSerAcp(TCV_ch, CMServiceAcp_01) |     |          |
| 7                           |       | +RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                   |     | 2.       |
| 8                           |       | (TCV_CalledNum := TCV_Setup_mo1.cdpn, TCV_Res := OO_CalledPtyNumCHK(TCV_CalledNum))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                   |     |          |
| 9                           |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   | (F) | 3.       |
| 10                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                   |     |          |
| 11                          |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                   | (P) |          |
| 12                          |       | +CCstatuschk_05(C_U1, TCV_TI, TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                   |     | 4.       |
| 13                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                   |     |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To select a basic service and channel rate, if the MS supports telephony the selected basic service is telephony.</li> <li>2. To receive the SETUP message with called party BCD number.</li> <li>3. The called party number contained in the SETUP message is not the one entered.</li> <li>4. To check whether the MS is in state U1.</li> </ol>                                                                                                                                                                           |                                   |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_2_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                                       |      |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CRef | V | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
| 2                           |       | +BasicServiceMOorTelephony(TSPX_MOBScSvcC, TSPX_MOChRateC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   | 1.       |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Reestablishment, 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(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| 6                           | body  | (TCV_Null := OM_LowerLayerFail(TCV_ch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 7                           |       | START T_dly(20000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
| 8                           |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   |          |
| 9                           |       | +CCEstablishMT_SDCCH4(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| 10                          |       | +CheckTIsInStateU0(TRUE, TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| 11                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   |          |
| <b>Detailed Comments:</b>   |       | 1. To select a basic service and channel rate, if the MS supports telephony the selected basic service is telephony.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                   |   |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_3_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                   |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                   |   |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                                                                                                                           |                                   |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                   |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                              | V | 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_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(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  | L!DL_DatRqCallProc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CallProc(TCV_chTch, TCV_CallProc) |   |          |
| 8                           |       | +CCstatuschk_05(C_U3, TCV_TI, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                   |   | 2.       |
| 9                           |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                   |   |          |
| <b>Detailed Comments:</b>   |       | 1. To select a basic service and channel rate, if the MS supports telephony the selected basic service is telephony.<br>2. Check that CC state is U3.                                                                                                                                                                                                                                                                                                                                                                                                                 |                                   |   |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                              |   |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_3_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                              |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                              |   |          |
| <b>Purpose:</b>             |       | <ol style="list-style-type: none"> <li>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".</li> <li>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".</li> <li>3) To verify that in releasing the MM-connection, the MS shall wait for MM layer release initiated by SS.</li> </ol>                                                         |                                              |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                              |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                         | V | 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_NECl_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, 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(TSPX_TCHHSubDef, C_Immass, TSPX_TmSitDef, 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_TmSitDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                              |   |          |
| 7                           | body  | !IDL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | RelComSnd(TCV_ch Tch, ReleaseCmp_04(TCV_TI)) |   |          |
| 8                           |       | +CheckTIsInStateU0(TRUE, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                              |   |          |
| 9                           |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                              |   |          |
| <b>Detailed Comments:</b>   |       | 1. To select a basic service and channel rate, if the MS supports telephony the selected basic service is telephony.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                              |   |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |     |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_3_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                  |     |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                                   |                                                  |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                             | V   | 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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2) |                                                  |     |          |
| 4                           |       | +CCConfigTCH(TSPX_TCHHSubDef, C_Immass, TSPX_TmSitDef, 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_TmSitDef, 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                           |       | [(TCV_Time < 24000) OR (TCV_Time >= 36000)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  | (F) |          |
| 9                           |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |     |          |
| 10                          |       | [(TCV_Time >= 24000) AND (TCV_Time < 36000)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                  | (P) |          |
| 11                          |       | +CCstatuschk_05(C_U11, TCV_TI, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                  |     |          |
| 12                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |     |          |
| <b>Detailed Comments:</b>   |       | 1. To select a basic service and channel rate, if the MS supports telephony the selected basic service is telephony.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                  |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_3_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                                               |      |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CRef | V | 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_NECl_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2) |      |   |          |
| 4                           |       | +CCConfigTCH(TSPX_TCHHSubDef, C_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))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   | 2.       |
| 7                           | body  | (TCV_Null := OM_LowerLayerFail(TCV_chTch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |   | 3.       |
| 8                           |       | START T_dly(20000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| 9                           |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   | 4.       |
| 10                          |       | +CCEstablishMT_SDCCH4(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
| 11                          |       | +CheckTIsInStateU0(TRUE, TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   | 5.       |
| 12                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To select a basic service and channel rate, if the MS supports telephony the selected basic service is telephony.</li> <li>2. To bring the MS into U1 state.</li> <li>3. A layer failure generated in the test system.</li> <li>4. Waiting for the MS return to idle state.</li> <li>5. To check that CC entities related to all transaction identifiers are return to idle.</li> </ol>                                                                                                                                    |      |   |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          |   |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_3_5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                          |   |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                                                                                                                                                    |                                          |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                          |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CRef                                     | V | 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_Immss, 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) |                                          |   |          |
| 4                           |       | +CCConfigTCH(TSPX_TCHHSubDef, C_Immss, 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                           | body  | L!DL_DatRqAlert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | AlertSnd(TCV_chTch, Alerting_01(TCV_TI)) |   |          |
| 8                           |       | +CCstatuschk_05(C_U4, TCV_TI, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                          |   |          |
| 9                           |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                          |   |          |
| <b>Detailed Comments:</b>   |       | 1. To select a basic service and channel rate, if the MS supports telephony the selected basic service is telephony.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                          |   |          |



| <b>Test Case Dynamic Behaviour</b> |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                              |   |          |
|------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|---|----------|
| <b>Test Case Name:</b>             |       | TC_26_8_1_2_3_6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                              |   |          |
| <b>Group:</b>                      |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                              |   |          |
| <b>Purpose:</b>                    |       | 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".                                                                                                                                                                                                                                                                                                                                                                   |                                                              |   |          |
| <b>Default:</b>                    |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                              |   |          |
| Nr                                 | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                         | V | Comments |
| 1                                  |       | 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_NECl_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, 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_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                            |                                                              |   |          |
| 5                                  |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                              |   |          |
| 6                                  |       | +PreEnterCCstateU1_24( TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                              |   |          |
| 7                                  | body  | L!DL_DatRqConn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ConnSnd(TCV_chTch                                            |   |          |
| 8                                  |       | L?DL_DatInConnAck                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | , Connect_02(TCV_TI))<br>ConnAckRcv(Connect Ack_02(TCV_TI0)) |   |          |
| 9                                  |       | +CCstatuschk_05(C_U10, TCV_TI, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                              |   |          |
| 10                                 |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                              |   |          |
| <b>Detailed Comments:</b>          |       | 1. To select a basic service and channel rate, if the MS supports telephony the selected basic service is telephony.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                              |   |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                             |     |          |
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| <b>Test Case Name:</b>      |       | TC_26_8_1_2_3_7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                             |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |     |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                                          |                                             |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                             |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                        | V   | 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(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |     |          |
| 6                           | body  | L!DL_DatRqUndefCC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | UndefCC(TCV_ch, UndefCC_02(TCV_TI))         |     | 2.       |
| 7                           |       | 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                             |     |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To select a basic service and channel rate, if the MS supports telephony the selected basic service is telephony.</li> <li>2. Message type not defined for CC.</li> <li>3. The expected STATUS message received.</li> <li>4. To check whether the MS is still in CC state U1.</li> </ol>                                                                                                                                                                                                                                    |                                             |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          |   |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_4_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                          |   |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                                                                                                                                 |                                          |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                     | V | 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_NECl_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, 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                           |       | +CCConfigTCH(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  | L!DL_DatRqAlert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | AlertSnd(TCV_chTch, Alerting_01(TCV_TI)) |   |          |
| 8                           |       | +CCstatuschk_05(C_U4, TCV_TI, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                          |   |          |
| 9                           |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                          |   |          |
| <b>Detailed Comments:</b>   |       | 1. To select a circuit switched basic service for testing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                          |   |          |

### Test Case Dynamic Behaviour

|                        |                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_26_8_1_2_4_2                                                                                                                                                                                                                                                                                                                                                   |
| <b>Group:</b>          | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                               |
| <b>Purpose:</b>        | <ol style="list-style-type: none"> <li>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".</li> <li>2) To verify that the MS stops locally generated indication, if any.</li> </ol> |
| <b>Default:</b>        | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                   |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                          | V   | 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_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(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  | L!DL_DatRqConn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ConnSnd(TCV_chTch<br>,<br>Connect_02(TCV_TI)) |     |          |
| 8  |       | (TCV_Res := OO_ToneStopCHK())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                               |     |          |
| 9  |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                               | (P) |          |
| 10 |       | L?DL_DatInConnAck                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ConnAckRcv(Connect<br>Ack_02(TCV_TI0))        |     |          |
| 11 |       | +CCstatuschk_05(C_U10,<br>TCV_TI, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                               |     |          |
| 12 |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                               |     |          |
| 13 |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                               | (F) |          |
| 14 |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                               |     |          |

**Detailed Comments:** 1. To select a circuit switched basic service for testing.

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                  |     |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_4_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                  |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                  |     |          |
| <b>Purpose:</b>             |       | 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.<br>2) To verify that after receipt of the PROGRESS message timer T310 is stopped.                                                                                                                                                                                                                                                                                                    |                                                  |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                  |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                             | V   | 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_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                           |       | +CCConfigTCH(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?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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                  |     |          |
| <b>Detailed Comments:</b>   |       | 1. To select a circuit switched basic service for testing.<br>2. To check that CC state is U3<br>3. To check that the MS has stopped T310.<br>4. To check that CC state is still U3                                                                                                                                                                                                                                                                                                                                                                                 |                                                  |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |     |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_4_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                  |     |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                     |                                                  |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                             | V   | 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_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(TSPX_TCHHSubDef, C_Immass, TSPX_TmSlTDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                            |                                                  |     |          |
| 5                           |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                  |     |          |
| 6                           |       | +PreEnterCCstateU3_22(TSPX_TmSlTDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |     |          |
| 7                           | body  | L!DL_DatRqProg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Progress(TCV_chTch, Progress_02(TCV_TI))         |     |          |
| 8                           |       | (TCV_Res := OO_TCHThroConnCHK())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                  |     |          |
| 9                           |       | [TCV_ChMod.mode = C_ChMod_r]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                  |     | 2.       |
| 10                          |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                  | (P) |          |
| 11                          |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                  |     |          |
| 12                          |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                  | (F) |          |
| 13                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |     |          |
| 14                          |       | [TCV_ChMod.mode<> C_ChMod_r]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                  |     | 3.       |
| 15                          |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                  | (P) |          |
| 16                          |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                  |     |          |
| 17                          |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                  | (F) |          |
| 18                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |     |          |
| 19                          |       | <b>localtree</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                  |     |          |
| 19                          |       | +CCstatuschk_05(C_U3, TCV_TI, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                  |     | 4.       |
| 20                          |       | START T_dly(45000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                  |     | 5.       |
| 21                          |       | 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                          |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                  | (P) |          |
| 28                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |     |          |
| 29                          |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                  | (F) |          |
| 30                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |     |          |
| 31                          |       | [TCV_ChMod.mode<> C_ChMod_r]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                  | (P) |          |
| 32                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |     |          |

**Detailed Comments:**

1. To select a circuit switched basic service for testing.
2. To check if the TCH is connected through if the channel mode is speech, so that the inband information may be heard.
3. To check if the TCH is not connected through if the channel mode is not speech.
4. To check that CC is in state U3.
5. To check that the MS has stopped T310
6. To check that CC is still in state U3.
7. To check if the TCH is connected through if the channel mode is speech.

### Test Case Dynamic Behaviour

**Test Case Name:** TC\_26\_8\_1\_2\_4\_5  
**Group:** GSM\_L3\_MS\_v4180/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.  
**Default:** OtherEventsFail

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                                       | V   | 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_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(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  | L!DL_DatRqDisc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_03iei, UuInfo_omit)) |     |          |
| 8  |       | [TCV_ChMod.mode = C_ChMod_r]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                            |     |          |
| 9  |       | (TCV_Res := OO_TCHThroConnCHK())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                            |     |          |
| 10 |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                            | (P) | 2.       |
| 11 |       | +CCstatuschk_05(C_U12, TCV_TI, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                            |     | 3.       |
| 12 |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                            |     |          |
| 13 |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                            | (F) |          |
| 14 |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                            |     |          |
| 15 |       | [TCV_ChMod.mode <> C_ChMod_r]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                            |     |          |
| 16 |       | L?DL_DatInRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ReleaseRcv(Release_10(TCV_TIO))                                            | (P) |          |
| 17 |       | +CCstatuschk_05(C_U19, TCV_TI, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                            |     | 4.       |
| 18 |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                            |     |          |

**Detailed Comments:**

1. To select a circuit switched basic service for testing.
2. To check that the TCH is connected through if channel mode is speech.
3. To check that CC is in state U12.
4. To check that CC is in state U19.



| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                           |   |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_4_6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                           |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                           |   |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                                                                          |                                                                           |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                           |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                                      | V | 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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2) |                                                                           |   |          |
| 4                           |       | +CCConfigTCH(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  | L!DL_DatRqDisc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_omit, UuInfo_omit)) |   |          |
| 8                           |       | L?DL_DatInRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ReleaseRcv(Release_10(TCV_TI0))                                           |   |          |
| 9                           |       | +CCstatuschk_05(C_U19, TCV_TI, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                           |   | 2.       |
| 10                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                           |   |          |
| <b>Detailed Comments:</b>   |       | 1. To select a circuit switched basic service for testing.<br>2. To check that CC is in state U19.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                           |   |          |

### Test Case Dynamic Behaviour

**Test Case Name:** TC\_26\_8\_1\_2\_4\_7  
**Group:** GSM\_L3\_MS\_v4180/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.

**Default:** OtherEventsFail

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                      | V   | 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(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  | L!DL_DatRqRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ReleaseSnd(TCV_chTch, Release_03(TCV_TI)) |     |          |
| 8  |       | 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 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                               |     |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_4_8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                               |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                               |     |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                                                                                     |                                               |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                               |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                          | V   | 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(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                               |     | 2.       |
| 6                           | body  | (TCV_Null := OO_TermCall())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                               |     |          |
| 7                           |       | L?DL_DatInDisc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DiscRcv(TCV_ch, DisconnR(TCV_T10, Cause_Def)) | (P) | 3.       |
| 8                           |       | +CCstatuschk_05(C_U11, TCV_T1, TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                               |     | 4.       |
| 9                           |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                               |     |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To select a circuit switched basic service for testing.</li> <li>2. To initiate MO call and bring the MS into U3 state.</li> <li>3. The expected DISCONNECT received.</li> <li>4. To check whether the MS is in CC state U11.</li> </ol>                                                                                                                                                                                                                                                                                    |                                               |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_4_9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                     |      |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef | V | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| 2                           |       | +BasicServiceMOorTelephony(TSPX_MOBScSvcI, 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) |      |   | 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                           |       | +PreEnterCCstateU3_23(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| 7                           | body  | +CCAssignTCH(TSPX_TmSlitDef, TSPX_TscDef)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   | 2.       |
| 8                           |       | +CCstatuschk_05(C_U3, TCV_TI, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   | 3.       |
| 9                           |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |   |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To setup a physical channel as BCCH, CCCH and SDCCH4.</li> <li>2. To assign traffic channel.</li> <li>3. To check that the MS is in state U3.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                               |     |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_4_10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                               |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                               |     |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                                                                            |                                               |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                               |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                          | V   | 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_Immash, 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                           |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                               |     |          |
| 5                           |       | +PreEnterCCstateU3_23(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                               |     | 2.       |
| 6                           | body  | START T_dly1(45000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                               |     |          |
| 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),<br>CANCEL T_dly1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               |     |          |
| 11                          |       | [TCV_Time < 29400]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                               | (F) | 4.       |
| 12                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                               |     |          |
| 13                          |       | [TCV_Time >= 29400]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                               | (P) |          |
| 14                          |       | +CCstatuschk_05(C_U11, TCV_TI, TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                               |     | 5.       |
| 15                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                               |     |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To setup a physical channel as BCCH, CCCH and SDCCH4.</li> <li>2. To initiate MO call and bring the MS into U3 state.</li> <li>3. T310 &gt;= 45 seconds, fail.</li> <li>4. T310 &lt; 29.4 seconds, fail.</li> <li>5. To check that the MS is in the state U11.</li> </ol>                                                                                                                                                                                                                                                 |                                               |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_4_11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                           |      |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef | V | 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) |      |   |          |
| 4                           |       | +CCConfigTCH(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                            |      |   | 2.       |
| 5                           |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 6                           |       | +PreEnterCCstateU3_24(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| 7                           | body  | (TCV_Null := OM_LowerLayerFail(TCV_chTch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |          |
| 8                           |       | START T_dly(20000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| 9                           |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   | 3.       |
| 10                          |       | +CCEstablishMT_SDCCH4(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| 11                          |       | +CheckTIsInStateU0(TRUE, TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   | 4.       |
| 12                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To select a basic service and channel rate, if the MS supports telephony the selected basic service is telephony.</li> <li>2. To setup the full rate or half rate traffic channel .</li> <li>3. Waiting for the MS return to idle state.</li> <li>4. To check that CC entities related to all transaction identifiers are return to idle.</li> </ol>                                                                                                                                                                        |      |   |          |

| <b>Test Case Dynamic Behaviour</b> |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                              |     |          |
|------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-----|----------|
| <b>Test Case Name:</b>             |       | TC_26_8_1_2_4_12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                              |     |          |
| <b>Group:</b>                      |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                              |     |          |
| <b>Purpose:</b>                    |       | 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.                                                                                                                                                                                                                                                                                                                                                                                         |                                              |     |          |
| <b>Default:</b>                    |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                              |     |          |
| Nr                                 | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                         | V   | 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_NECl_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, 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) |                                              |     | 1.       |
| 4                                  |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                              |     |          |
| 5                                  |       | +PreEnterCCstateU3_21(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                              |     |          |
| 6                                  | body  | L!DL_DatRqUndefCC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | UndefCC(TCV_ch, UndefCC_02(TCV_TI))          |     | 2.       |
| 7                                  |       | L?DL_DatInCcst                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CCStRcv(TCV_ch, CCStatus_08(TCV_TI 0, C_U3)) | (P) | 3.       |
| 8                                  |       | +CCstatuschk_05(C_U3, TCV_TI, TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                              |     | 4.       |
| 9                                  |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                              |     |          |
| <b>Detailed Comments:</b>          |       | <ol style="list-style-type: none"> <li>1. To setup a physical channel as BCCH, CCCH and SDCCH4.</li> <li>2. To send a message which type is not defined for the CC.</li> <li>3. The expected STATUS message received.</li> <li>4. To check whether the MS is still in the CC state U3.</li> </ol>                                                                                                                                                                                                                                                                   |                                              |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |     |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_4_13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                       |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                       |     |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                     |                                       |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                  | V   | 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(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                       |     |          |
| 6                           | body  | LIDL_DatRqAlert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | AlertSnd(TCV_ch, Alerting_01(TCV_TI)) |     |          |
| 7                           |       | (TCV_Res := OO_AltIndCHK())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       |     |          |
| 8                           |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                       | (P) | 1.       |
| 9                           |       | +CCstatuschk_05(C_U4, TCV_TI, TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |     | 2.       |
| 10                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                       |     |          |
| 11                          |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       | (F) | 3.       |
| 12                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                       |     |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. The Ms generates a alerting indication to the user.</li> <li>2. To check whether the MS is in CC state U4.</li> <li>3. The MS does not generate a alerting indication to the user.</li> </ol>                                                                                                                                                                                                                                                                                                                               |                                       |     |          |



| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                              |     |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_5_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                              |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                              |     |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                                                                                                   |                                                              |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                              |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CRef                                                         | V   | 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_NECl_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2) |                                                              |     | 1.       |
| 4                           |       | +CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_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_23(TSPX_TmSlitDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                              |     |          |
| 7                           | body  | L?DL_DatRqConn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ConnSnd(TCV_chTch                                            |     |          |
| 8                           |       | L?DL_DatInConnAck                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | , Connect_02(TCV_TI))<br>ConnAckRcv(Connect Ack_02(TCV_TI0)) | (P) | 2.       |
| 9                           |       | (TCV_Res := OO_AltIndCHK())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                              |     |          |
| 10                          |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                              |     |          |
| 11                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                              | (F) | 3.       |
| 12                          |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                              | (P) | 4.       |
| 13                          |       | +CCstatuschk_05(C_U10, TCV_TI, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                              |     | 5.       |
| 14                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                              |     |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To set a physical channel as BCCH, CCCH and SDCCH4.</li> <li>2. The expected CONNECT ACKNOWLEDGE received.</li> <li>3. Alerting does not stop.</li> <li>4. Alerting stopped.</li> <li>5. To check whether the MS is in state U10.</li> </ol>                                                                                                                                                                                                                                                                               |                                                              |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                  |     |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_5_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                  |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                  |     |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                                                                                                       |                                                  |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                  |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                             | V   | 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_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) |                                                  |     | 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                           |       | +PreEnterCCstateU4_23(TSPX_TmSlitDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                  |     |          |
| 7                           | body  | (TCV_Null := OO_TermCall())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                  |     |          |
| 8                           |       | 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                  |     |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To setup a physical channel as BCCH, CCCH and SDCCH4.</li> <li>2. The expected DISCONNECT message received.</li> <li>3. To check whether the MS enters into the state U11.</li> </ol>                                                                                                                                                                                                                                                                                                                                     |                                                  |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                            |     |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_5_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                            |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                            |     |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                   |                                                                            |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                            |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                                       | V   | 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_NECl_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, 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(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  | L!DL_DatRqDisc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_03iei, UuInfo_omit)) |     |          |
| 8                           |       | [TCV_ChMod.mode = C_ChMod_r]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                            |     |          |
| 9                           |       | +CCstatuschk_05(C_U12, TCV_TI, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                            |     |          |
| 10                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                            |     |          |
| 11                          |       | [TCV_ChMod.mode <> C_ChMod_r]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                            |     |          |
| 12                          |       | L?DL_DatInRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ReleaseRcv(Release_10(TCV_TI0))                                            | (P) |          |
| 13                          |       | +CCstatuschk_05(C_U19, TCV_TI, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                            |     |          |
| 14                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                            |     |          |
| <b>Detailed Comments:</b>   |       | 1. To select a circuit switched basic service for testing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                            |     |          |

| Test Case Dynamic Behaviour                                                                                                                                                                                               |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                           |     |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----|----------|
| <b>Test Case Name:</b> TC_26_8_1_2_5_4                                                                                                                                                                                    |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                           |     |          |
| <b>Group:</b> GSM_L3_MS_v4180/CC/                                                                                                                                                                                         |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                           |     |          |
| <b>Purpose:</b> 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". |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                           |     |          |
| <b>Default:</b> OtherEventsFail                                                                                                                                                                                           |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                           |     |          |
| Nr                                                                                                                                                                                                                        | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                                      | V   | 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_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2) |                                                                           |     |          |
| 4                                                                                                                                                                                                                         |       | +CCConfigTCH(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  | L!DL_DatRqDisc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_omit, UuInfo_omit)) |     |          |
| 8                                                                                                                                                                                                                         |       | L?DL_DatInRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ReleaseRcv(Release_10(TCV_TI0))                                           | (P) |          |
| 9                                                                                                                                                                                                                         |       | +CCstatuschk_05(C_U19, TCV_TI, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                           |     |          |
| 10                                                                                                                                                                                                                        |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                           |     |          |
| <b>Detailed Comments:</b>                                                                                                                                                                                                 |       | 1. To select a circuit switched basic service for testing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                           |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                            |     |          |
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| <b>Test Case Name:</b>      |       | TC_26_8_1_2_5_5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                            |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |     |          |
| <b>Purpose:</b>             |       | 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"<br>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".                                                                                                                                                                |                                            |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                            |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                       | V   | 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(TSPX_TCHHSubDef, C_Immass, TSPX_TmSlTDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                            |                                            |     |          |
| 5                           |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                            |     |          |
| 6                           |       | +PreEnterCCstateU4_22(TSPX_TmSlTDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                            |     |          |
| 7                           | body  | L!DL_DatRqRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ReleaseSnd(TCV_ch Tch, Release_03(TCV_TI)) |     |          |
| 8                           |       | L?DL_DatInRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | RelComRcv(Release Cmp_03(TCV_TIO))         | (P) |          |
| 9                           |       | +CheckTIsInStateU0(TRUE, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |     |          |
| 10                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                            |     |          |
| <b>Detailed Comments:</b>   |       | 1. To select a circuit switched basic service for testing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                            |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
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| <b>Test Case Name:</b>      |       | TC_26_8_1_2_5_6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                                               |      |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef | V | 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                           |       | +CCConfigTCH(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                            |      |   |          |
| 5                           |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 6                           |       | +PreEnterCCstateU4_22(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| 7                           | body  | (TCV_Null := OM_LowerLayerFail(TCV_chTch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |          |
| 8                           |       | START T_dly(20000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| 9                           |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
| 10                          |       | +CCEstablishMT_SDCCH4(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| 11                          |       | +CheckTIsInStateU0(TRUE, TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
| 12                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| <b>Detailed Comments:</b>   |       | 1. To select a circuit switched basic service for testing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
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| <b>Test Case Name:</b>      |       | TC_26_8_1_2_5_7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                    |      |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef | V | 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_NECl_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, 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_21(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   | 2.       |
| 7                           | body  | +CCAssignTCH( TSPX_TmSltDef, TSPX_TscDef)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   | 3.       |
| 8                           |       | +CCstatuschk_05(C_U4, TCV_TI, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   | 4.       |
| 9                           |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |   |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To setup a physical channel as BCCH, CCCH and SDCCH4.</li> <li>2. To initiate MO call and bring the MS into U4 state.</li> <li>3. The assignment procedure succeeds.</li> <li>4. To check that the MS is still in state U4.</li> </ol>                                                                                                                                                                                                                                                                                      |      |   |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                           |   |          |
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| <b>Test Case Name:</b>      |       | TC_26_8_1_2_5_8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                           |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                           |   |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                                                                                                              |                                                           |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                           |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                      | V | 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_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(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  | L!DL_DatRqUndefCC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | UndefCC(TCV_chTch<br>,<br>UndefCC_02(TCV_TI<br>)          |   | 3.       |
| 8                           |       | L?DL_DatInCcst                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CCStRcv(TCV_chTch<br>,<br>CCStatus_08(TCV_TI<br>0, C_U4)) |   |          |
| 9                           |       | +CCstatuschk_05(C_U4, TCV_TI, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                           |   |          |
| 10                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                           |   |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To select a basic service and channel rate, if the MS supports telephony the selected basic service is telephony.</li> <li>2. To setup the full rate or half rate traffic channel and BCCH, CCCH for the test.</li> <li>3. To send a CC message which message type is undefined for the CC.</li> </ol>                                                                                                                                                                                                                      |                                                           |   |          |



| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                  |     |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_6_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                  |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                  |     |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                                                                                                     |                                                  |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                  |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                             | V   | 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_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) |                                                  |     | 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_TmSltDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                  |     | 2.       |
| 7                           | body  | (TCV_Null := OO_TermCall())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                  |     |          |
| 8                           |       | 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                  |     |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To setup a physical channel as BCCH, CCCH and SDCCH4.</li> <li>2. To bring the MS into U10 state.</li> <li>3. The expected DISCONNECT message received.</li> <li>4. To check whether the MS enters the state U11.</li> </ol>                                                                                                                                                                                                                                                                                              |                                                  |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                           |     |          |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_6_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                           |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                           |     |          |
| <b>Purpose:</b>             |       | 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"<br>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"                                                                                                                                                                     |                                           |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                           |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CRef                                      | V   | 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_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_RANDDDef, 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_TmSltDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                           |     | 2.       |
| 7                           | body  | L!DL_DatRqRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ReleaseSnd(TCV_chTch, Release_03(TCV_TI)) |     |          |
| 8                           |       | L?DL_DatInRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | RelComRcv(ReleaseCmp_03(TCV_TI0))         | (P) | 3.       |
| 9                           |       | +CheckTlInStateU0(TRUE, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                           |     |          |
| 10                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                           |     |          |
| <b>Detailed Comments:</b>   |       | 1. To setup a physical channel as BCCH, CCCH and SDCCH4.<br>2. To bring the MS into U10 state.<br>3. The expected RELEASE COMPLETE message received.                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                            |     |                        |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----|------------------------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_6_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                            |     |                        |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                            |     |                        |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                  |                                                                            |     |                        |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                            |     |                        |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                                       | V   | 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_Immasc, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECl_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, 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) |                                                                            |     | 2.                     |
| 4                           |       | +CCConfigTCH(TSPX_TCHHSubDef, C_Immasc, 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                          |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                            | (P) | Inband info audible    |
| 11                          |       | +CCstatuschk_05(C_U12, TCV_TI, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                            |     |                        |
| 12                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                            |     |                        |
| 13                          |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                            | (F) | No inband info audible |
| 14                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                            |     |                        |
| 15                          |       | [TCV_ChMod.mode <> C_ChMod_r]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                            |     |                        |
| 16                          |       | L?DL_DatInRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ReleaseRcv(Release_10(TCV_TI0))                                            | (P) |                        |
| 17                          |       | +CCstatuschk_05(C_U19, TCV_TI, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                            |     |                        |
| 18                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                            |     |                        |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To select a circuit switched basic service for testing.</li> <li>2. To setup BCCH, CCCH and traffic channels.</li> <li>3. With progress indicator #8.</li> <li>4. To check whether the audio path is connected for inband tones.</li> </ol>                                                                                                                                                                                                                                                                                 |                                                                            |     |                        |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                           |     |          |
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| <b>Test Case Name:</b>      |       | TC_26_8_1_2_6_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                           |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                           |     |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                                                                                   |                                                                           |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                           |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                                      | V   | 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(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  | L?DL_DatRqDisc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_omit, UuInfo_omit)) |     | 3.       |
| 8                           |       | L?DL_DatInRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ReleaseRcv(Release_10(TCV_TI0))                                           | (P) |          |
| 9                           |       | +CCstatuschk_05(C_U19, TCV_TI, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                           |     |          |
| 10                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                           |     |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To select a circuit switched basic service for testing.</li> <li>2. To setup BCCH, CCCH and traffic channels.</li> <li>3. Without progress indicator #8.</li> </ol>                                                                                                                                                                                                                                                                                                                                                         |                                                                           |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                              |   |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_6_5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                              |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                              |   |          |
| <b>Purpose:</b>             |       | 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".<br>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".                                                                                                                                                                                                                                     |                                              |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                              |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                         | V | 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_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) |                                              |   | 2.       |
| 4                           |       | +CCConfigTCH(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_ch Tch, ReleaseCmp_04(TCV_TI)) |   |          |
| 8                           |       | +CheckTlInStateU0(TRUE, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                              |   |          |
| 9                           |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                              |   |          |
| <b>Detailed Comments:</b>   |       | 1. To select a circuit switched basic service for testing.<br>2. To setup BCCH, CCCH and traffic channels.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                              |   |          |

| Test Case Dynamic Behaviour |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                              |          |                 |
|-----------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------|-----------------|
| <b>Test Case Name:</b>      |              | TC_26_8_1_2_6_6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                              |          |                 |
| <b>Group:</b>               |              | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                              |          |                 |
| <b>Purpose:</b>             |              | 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.                                                                                                                                                                                                                                                                                                                                                                            |                                              |          |                 |
| <b>Default:</b>             |              | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                              |          |                 |
| <b>Nr</b>                   | <b>Label</b> | <b>Behaviour Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>CRef</b>                                  | <b>V</b> | <b>Comments</b> |
| 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_Immasc, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECl_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, 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)                                                                          |                                              |          | 2.              |
| 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                           |              | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                              |          |                 |
| 7                           |              | +PreEnterCCstateU10_21(TSPX_TmSlitDef, 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?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?DL_DatInCallCo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CallCfm(CallConfirm_02(TCV_TI))              | (P)      | 8.              |
| 14                          |              | L?DL_DatInAlert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | AlertRcv(AlertingInd_02(TCV_TI))             |          |                 |
| 15                          |              | L!DL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | RelComSnd(TCV_chTch, ReleaseCmp_08(TCV_TI0)) |          |                 |
| 16                          |              | +CCstatuschk_05(C_U10, TCV_TI, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                              |          | 7.              |
| 17                          |              | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                              |          |                 |
| <b>Detailed Comments:</b>   |              | <ol style="list-style-type: none"> <li>1. Select a MT service supported by the MS, The SETUP_PDU will be stored in TCV_Setup_mt.</li> <li>2. To setup a physical channel as BCCH, CCCH and SDCCH4.</li> <li>3. To bring the MS into the state U10 of a MO call.</li> <li>4. a) add signal IE with "call waiting tone on" - b) Set TI value same as MO call and TI flag for MT.</li> <li>5. To establish a second transaction for MT call with the same TI value as that in the MO call</li> <li>6. Call waiting not supported.</li> <li>7. To check whether the MS is still in the state U10.</li> <li>8. Call waiting supported.</li> </ol> |                                              |          |                 |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                           |     |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_7_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                           |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                           |     |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                                                                                  |                                                                           |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                           |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                                      | V   | 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_NECl_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, 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_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                           |       | +PreEnterCCstateU11_23(TSPX_TmSlitDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                           |     | 2.       |
| 7                           | body  | LIDL_DatRqDisc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_omit, UuInfo_omit)) |     |          |
| 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                           |     |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To setup a physical channel as BCCH, CCCH and SDCCH4.</li> <li>2. To bring the MS into the state U11.</li> <li>3. The expected RELEASE message received.</li> <li>4. To check whether the MS enters the state U19.</li> </ol>                                                                                                                                                                                                                                                                                               |                                                                           |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                           |     |          |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_7_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                           |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                           |     |          |
| <b>Purpose:</b>             |       | 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".<br>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".                                                                                                                                                                     |                                           |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                           |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CRef                                      | V   | 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_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_RANDDDef, 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                           |       | +PreEnterCCstateU11_23(TSPX_TmSlitDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                           |     | 2.       |
| 7                           | body  | L!DL_DatRqRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ReleaseSnd(TCV_chTch, Release_03(TCV_TI)) |     |          |
| 8                           |       | L?DL_DatInRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | RelComRcv(Release Cmp_03(TCV_TI0))        | (P) | 3.       |
| 9                           |       | +CheckTIsInStateU0(TRUE, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                           |     | 4.       |
| 10                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                           |     |          |
| <b>Detailed Comments:</b>   |       | 1. To setup a physical channel as BCCH, CCCH and SDCCH4.<br>2. To bring the MS into the state U11.<br>3. The expected RELEASE COMPLETE message received.<br>4. To check that the CC entities with relevant transaction identifiers are in the state U0.                                                                                                                                                                                                                                                                                                                |                                           |     |          |



| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                           |     |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_7_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                           |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                           |     |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                                      |                                           |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                           |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                      | V   | 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_CKSNDf, 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                           |       | +PreEnterCCstateU11_23Timer(TSPX_TmSlitDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                           |     | 2.       |
| 7                           | body  | (TCV_Cau0.iei := '00001000'B)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                           |     | 3.       |
| 8                           |       | 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                           |       | [(TCV_Time < 27000) OR (TCV_Time >= 33000)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                           | (F) | 4.       |
| 10                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                           |     |          |
| 11                          |       | [(TCV_Time >= 27000) AND(TCV_Time < 33000)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                           | (P) | 5.       |
| 12                          |       | +CCstatuschk_05(C_U19, TCV_TI, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                           |     | 6.       |
| 13                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                           |     |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To setup a physical channel as BCCH, CCCH and SDCCH4.</li> <li>2. To bring the MS into the state U11.</li> <li>3. Cause IE in DISCONNECT without IEI, add IEI to the Cause IE received from DISCONNECT.</li> <li>4. Fail, if the time-out value of the T305 timer is either greater than or equal to 33 seconds, or less than 27 seconds.</li> <li>5. Pass, if the timeout value of T305 is OK.</li> <li>6. To check whether the MS enters the state U19.</li> </ol>                                                      |                                           |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_7_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                                         |      |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef | V | 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) |      |   | 2.       |
| 4                           |       | +CCConfigTCH(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  | (TCV_Null := OM_LowerLayerFail(TCV_chTch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |          |
| 8                           |       | START T_dly(20000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| 9                           |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
| 10                          |       | +CCEstablishMT_SDCCH4(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| 11                          |       | +CheckTIsInStateU0(TRUE, TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
| 12                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| <b>Detailed Comments:</b>   |       | 1. To select a circuit switched basic service for testing.<br>2. To setup BCCH, CCCH and traffic channels.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                   |     |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_7_5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                   |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                   |     |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                                                                                                   |                                                   |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                   |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                              | V   | 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_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) |                                                   |     | 2.       |
| 4                           |       | +CCConfigTCH(TSPX_TCHHSubDef, C_Immass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                          |                                                   |     | 2.       |
| 5                           |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                   |     |          |
| 6                           |       | +PreEnterCCstateU11_24(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                   |     |          |
| 7                           | body  | LIDL_DatRqUndefCC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | UndefCC(TCV_chTch ; UndefCC_02(TCV_TI) )          |     | 3.       |
| 8                           |       | L?DL_DatInCcst                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CCStRcv(TCV_chTch ; CCStatus_08(TCV_TI 0, C_U11)) | (P) |          |
| 9                           |       | +CCstatuschk_05(C_U11, TCV_TI, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                   |     |          |
| 10                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                   |     |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To select a circuit switched basic service for testing.</li> <li>2. To setup BCCH, CCCH and traffic channels.</li> <li>3. To send a CC message which message type is undefined for the CC.</li> </ol>                                                                                                                                                                                                                                                                                                                     |                                                   |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                 |   |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_8_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                 |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 |   |          |
| <b>Purpose:</b>             |       | 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"                                                                                                                                                                                                                                                                                               |                                 |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                 |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                            | V | 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_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) |                                 |   | 1.       |
| 4                           |       | +CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSlTDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_ChMod_r, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                  |                                 |   |          |
| 5                           |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                 |   |          |
| 6                           |       | +PreEnterCCstateU12_21(TSPX_TmSlTDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                 |   | 2.       |
| 7                           | body  | (TCV_Null := OO_TermCall())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                 |   | 3.       |
| 8                           |       | L?DL_DatInRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ReleaseRcv(Release_10(TCV_T10)) |   | 4.       |
| 9                           |       | +CCstatuschk_05(C_U19, TCV_TI, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                 |   | 5.       |
| 10                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                 |   |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To setup a physical channel as BCCH, CCCH and SDCH4, and wait for the MS in service.</li> <li>2. To bring the MS into the state U12.</li> <li>3. MMI action, "on hook".</li> <li>4. The expected RELEASE message received.</li> <li>5. To check whether the MS is in the state U19.</li> </ol>                                                                                                                                                                                                                            |                                 |   |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |     |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_8_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                            |     |          |
| <b>Purpose:</b>             |       | <ol style="list-style-type: none"> <li>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"</li> <li>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".</li> </ol>                                                                                    |                                            |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CRef                                       | V   | 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCH4SubDef, 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, C_ChMod_r, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                   |                                            |     |          |
| 5                           |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                            |     |          |
| 6                           |       | +PreEnterCCstateU12_21(TSPX_TmSlTDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            |     | 2.       |
| 7                           | body  | L!DL_DatRqRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ReleaseSnd(TCV_ch Tch, Release_03(TCV_TI)) |     |          |
| 8                           |       | L?DL_DatInRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | RelComRcv(Release Cmp_03(TCV_TI0))         | (P) | 3.       |
| 9                           |       | +CheckTlInStateU0(TRUE, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |     | 4.       |
| 10                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                            |     |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To setup a physical channel as BCCH, CCCH and SDCHH4, and wait for the MS in service.</li> <li>2. To bring the MS into the state U12. Within the step a physical channel as appropriate traffic channel is setup.</li> <li>3. The expected RELEASE COMPLETE message received.</li> <li>4. To check whether the CC entities related to the seven mobile originating transaction is in the state U0.</li> </ol>                                                                                                              |                                            |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_8_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                                              |      |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef | V | 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_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(TSPX_TCHHSubDef, C_Immass, TSPX_TmSlTDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                            |      |   |          |
| 5                           |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 6                           |       | +PreEnterCCstateU12_22(TSPX_TmSlTDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
| 7                           | body  | (TCV_Null := OM_LowerLayerFail(TCV_chTch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |          |
| 8                           |       | START T_dly(20000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| 9                           |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
| 10                          |       | +CCEstablishMT_SDCCH4(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| 11                          |       | +CheckTIsInStateU0(TRUE, TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
| 12                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                  |   |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_8_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                  |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                  |   |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                                                                                                      |                                                  |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                  |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CRef                                             | V | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                  |   |          |
| 2                           |       | +SpeechService                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |   |          |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2) |                                                  |   | 1.       |
| 4                           |       | +CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_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_TmSlitDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                  |   | 2.       |
| 7                           | body  | LIDL_DatRqUndefCC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | UndefCC(TCV_chTch, UndefCC_02(TCV_TI))           |   | 3.       |
| 8                           |       | L?DL_DatInCcst                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CCStRcv(TCV_chTch, CCStatus_08(TCV_TI_0, C_U12)) |   | 4.       |
| 9                           |       | +CCstatuschk_05(C_U12, TCV_TI, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                  |   | 5.       |
| 10                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                  |   |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To setup a physical channel as BCCH, CCCH and SDCCH4, waiting for the MS in service.</li> <li>2. To bring the MS into the state U12.</li> <li>3. To send a CC message which message type is undefined for the CC.</li> <li>4. The expected STATUS message with cause #97 received.</li> <li>5. To check whether the MS is still in the state U12.</li> </ol>                                                                                                                                                               |                                                  |   |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                 |     |                 |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----|-----------------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_9_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                 |     |                 |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                 |     |                 |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                                                                      |                                 |     |                 |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                 |     |                 |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CRef                            | V   | 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_Immss, 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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2) |                                 |     |                 |
| 4                           |       | +CCConfigTCH(TSPX_TCHHSubDef, C_Immss, 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_T10)) |     | Any cause value |
| 8                           |       | [(TCV_Time < 27000) OR (TCV_Time >= 33000)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                 | (F) | 1.              |
| 9                           |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                 |     |                 |
| 10                          |       | [(TCV_Time >= 27000) AND(TCV_Time < 33000)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                 | (P) | 2.              |
| 11                          |       | +CCstatuschk_05(C_U19, TCV_TI, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                 |     |                 |
| 12                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                 |     |                 |
| <b>Detailed Comments:</b>   |       | 1. Fail, if the T308 timer value is either greater than or equal to 33 seconds, or less than 27 seconds.<br>2. Pass, if the T308 timer value is OK.                                                                                                                                                                                                                                                                                                                                                                                                                |                                 |     |                 |



| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                 |     |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_9_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                 |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |     |          |
| <b>Purpose:</b>             |       | 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".<br>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".                                                                                                                                                                                             |                                 |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                 |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                            | V   | 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_NECL_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, 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(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_TIO)) |     | 3.       |
| 8                           |       | +CCstatuschk_05(C_U19, TCV_TI, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                 |     |          |
| 9                           |       | START T_dly(50000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                 |     |          |
| 10                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                 | (F) | 4.       |
| 11                          |       | L?DL_RelIn START T_dly(10000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | DLRelInd_01                     | (P) |          |
| 12                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                 |     |          |
| 13                          |       | +CCEstablishMT_SDCCH4(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |     |          |
| 14                          |       | +CheckTlInStateU0(TRUE, TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                 |     |          |
| 15                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                 |     |          |
| <b>Detailed Comments:</b>   |       | 1. To select a circuit switched basic service for testing.<br>2. To setup BCCH, CCCH and traffic channels.<br>3. First timeout of T308, release with any cause value accepted.<br>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 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                           |   |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_9_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                           |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |   |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                     |                                           |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                           |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                      | V | 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(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  | L!DL_DatRqRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ReleaseSnd(TCV_chTch, Release_06(TCV_TI)) |   |          |
| 8                           |       | +CheckTIsInStateU0(TRUE, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |   |          |
| 9                           |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                           |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                           |   |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                              |   |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_9_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                              |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                              |   |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                            |                                              |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                              |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                         | V | 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_NECl_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, 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                           |       | +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                           |       | +PreEnterCCstateU19_21(TSPX_TmSlitDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                              |   | 2.       |
| 7                           | body  | L!DL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | RelComSnd(TCV_ch Tch, ReleaseCmp_08(TCV_TI)) |   | 3.       |
| 8                           |       | +CheckTIsInStateU0(TRUE, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                              |   | 4.       |
| 9                           |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                              |   |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To setup a physical channel as BCCH, CCCH and SDCCH4, waiting the MS in service.</li> <li>2. To bring the MS into the state U19.</li> <li>3. To send a RELEASE COMPLETE message to the MS.</li> <li>4. To check whether the CC entities related to the seven mobile originating transaction identifiers are in the state U0.</li> </ol>                                                                                                                                                                                     |                                              |   |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_2_9_5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                                                   |      |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef | V | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| 2                           |       | +BasicServiceMOorTelephony(TSPX_MOBscSvcF, TSPX_MOChRateF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |          |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_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                           |       | +PreEnterCCstateU19_21(TSPX_TmSlitDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   | 2.       |
| 7                           | body  | (TCV_Null := OM_LowerLayerFail(TCV_chTch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   | 3.       |
| 8                           |       | START T_dly(20000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| 9                           |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   | 4.       |
| 10                          |       | +CCEstablishMT_SDCCH4(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| 11                          |       | +CheckTIsInStateU0(TRUE, TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   | 5.       |
| 12                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To setup a physical channel as BCCH, CCCH and SDCCH4, waiting the MS in service.</li> <li>2. To bring the MS into the state U19.</li> <li>3. To generate lower layer failure in the lower emulator.</li> <li>4. To wait for the MS back to listening to paging.</li> <li>5. To check whether the CC entities related to the seven mobile originating transaction identifiers are in the state U0.</li> </ol>                                                                                                                |      |   |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |     |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_3_1_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                            |     |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                      |                                            |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                            |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CRef                                       | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |     |          |
| 2                           |       | +BasicServiceMT(TSPX_MT_NonSptSvc, C_Full)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                            |     |          |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immss, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECl_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, 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                           | body  | +CCEstablishMT_SDCCH4(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                            |     | 2.       |
| 5                           |       | +Authentication(TCV_ch, TSPX_CKSNDDef, TSPX_RANDDef)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                            |     |          |
| 6                           |       | +CIPHERING_on(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                            |     |          |
| 7                           |       | LIDL_DatRqSetup                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SetupSnd(TCV_ch, TCV_Setup_mt)             |     | 3.       |
| 8                           |       | L?DL_DatInRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | RelComRcv(Release CmpRcv(TI_01, Cause_12)) | (P) | 4.       |
| 9                           |       | +CheckTIsInStateU0(FALSE, TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                            |     | 5.       |
| 10                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                            |     |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To setup a physical channel as BCCH, CCCH and SDCCH4.</li> <li>2. To assign SDCCH4 channel.</li> <li>3. To send a SETUP message containing a bearer capability not supported by the MS.</li> <li>4. The expected RELEASE COMPLETE message with cause #88 received.</li> <li>5. To check that the CC entity is in state U0 with all the relevant transaction identifiers.</li> </ol>                                                                                                                                        |                                            |     |          |

| Test Case Dynamic Behaviour                                                                                                                                                                                                                                                                                                                                                                             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                            |     |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----|----------|
| <b>Test Case Name:</b> TC_26_8_1_3_2_1                                                                                                                                                                                                                                                                                                                                                                  |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                            |     |          |
| <b>Group:</b> GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                            |     |          |
| <b>Purpose:</b> 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". |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                            |     |          |
| <b>Default:</b> OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                         |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                            |     |          |
| Nr                                                                                                                                                                                                                                                                                                                                                                                                      | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                       | V   | 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))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                            |     |          |
| 6                                                                                                                                                                                                                                                                                                                                                                                                       | body  | L?DL_DatInRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | RelComRcv(Release CmpRcv(TI_01, Cause_13)) | (P) | 3.       |
| 7                                                                                                                                                                                                                                                                                                                                                                                                       |       | +CheckTIsInStateU0(FALSE, TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                            |     |          |
| 8                                                                                                                                                                                                                                                                                                                                                                                                       |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                            |     |          |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                                                                                                               |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                            |     |          |
| 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 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                 |     |          |
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| <b>Test Case Name:</b>      |       | TC_26_8_1_3_3_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                 |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 |     |          |
| <b>Purpose:</b>             |       | 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                                                                                                                                                                                                                                                                          |                                 |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                 |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                            | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 |     |          |
| 2                           |       | +BasicServiceMTorTelephony(TSPX_MTBscSvcB, TSPX_MTCbRateB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                 |     | 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_NECl_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, 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))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 |     |          |
| 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?DL_DatInAlert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | AlertRcv(AlertingInd_02(TI_01)) | (P) | 4.       |
| 9                           |       | +CCstatuschk_05(C_U7, TI_02, TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                 |     |          |
| 10                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                 |     |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To select a basic service.</li> <li>2. One physical channel as BCCH, CCCH and SDCCH4.</li> <li>3. The expected CONNECT message received in case of the MS supporting immediate connect.</li> <li>4. The expected ALERTING message received in case of the MS not supporting immediate connect.</li> </ol>                                                                                                                                                                                                                 |                                 |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                 |     |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_3_3_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                 |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |     |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                               |                                 |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                 |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                            | V   | 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))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |     | 2.       |
| 6                           | body  | +CCAssignTCH(TSPX_TmSltDef, TSPX_TscDef)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                 |     | 3.       |
| 7                           |       | L?DL_DatInAlert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | AlertRcv(AlertingInd_02(TI_01)) | (P) | 4.       |
| 8                           |       | +CCstatuschk_05(C_U7, TI_02, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 |     |          |
| 9                           |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                 |     |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>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.</li> <li>Use SETUP message without signal IE.</li> <li>Assign an appropriate traffic channel.</li> <li>The expected ALERTING message received.</li> </ol>                                                                                                                                    |                                 |     |          |



| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                   |     |          |
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| <b>Test Case Name:</b>      |       | TC_26_8_1_3_3_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                   |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                   |     |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                                                                                                                                       |                                                   |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                   |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CRef                                              | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                   |     |          |
| 2                           |       | +BasicServiceMTorTelephony(TSPX_MTNIC_BscS<br>vcB, TSPX_MTNIC_ChRateB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                   |     | 1.       |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECl_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                                   |     | 2.       |
| 4                           |       | +PreEnterCCstateU9_34(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                   |     | 3.       |
| 5                           | body  | (TCV_Null := OO_TermCall())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                   |     | 4.       |
| 6                           |       | L?DL_DatInDisc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | DiscRcv(TCV_ch,<br>DisconnR(TI_01,<br>Cause_Def)) | (P) | 5.       |
| 7                           |       | +CCstatuschk_05(C_U11, TI_02,<br>TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                   |     |          |
| 8                           |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                   |     |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To select a basic service. if the MS supports telephony the selected basic service is telephony.</li> <li>2. One physical channel as BCCH, CCCH and SDCCH4.</li> <li>3. Bring MS to state U9.</li> <li>4. To terminate the call.</li> <li>5. The expected DISCONNECT received.</li> </ol>                                                                                                                                                                                                                                                                                |                                                   |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                   |     |          |
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| <b>Test Case Name:</b>      |       | TC_26_8_1_3_3_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                   |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                   |     |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                   |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                   |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CRef                                                                              | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                   |     |          |
| 2                           |       | +BasicServiceMTorTelephony(TSPX_MTNIC_BscS<br>vcC, TSPX_MTNIC_ChRateC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                   |     | 1.       |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECl_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                                                                   |     | 2.       |
| 4                           |       | +PreEnterCCstateU9_34(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                   |     | 3.       |
| 5                           | body  | LIDL_DatRqDisc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | DiscSnd(TCV_ch,<br>DisconnS(TI_02,<br>Cause_01,<br>ProgInd_omit,<br>UuInfo_omit)) |     | 4.       |
| 6                           |       | L?DL_DatInRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ReleaseRcv(Release<br>_10(TI_01))                                                 | (P) | 5.       |
| 7                           |       | +CCstatuschk_05(C_U19, TI_02,<br>TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                   |     |          |
| 8                           |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                   |     |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To select a basic service. if the MS supports telephony the selected basic service is telephony.</li> <li>2. One physical channel as BCCH, CCCH and SDCCH4.</li> <li>3. Bring MS to state U9.</li> <li>4. To send DISCONNECT message.</li> <li>5. The expected RELEASE message received.</li> </ol>                                                                                                                                                                                                                                                                      |                                                                                   |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                          |     |          |
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| <b>Test Case Name:</b>      |       | TC_26_8_1_3_3_5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                          |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                          |     |          |
| <b>Purpose:</b>             |       | <ol style="list-style-type: none"> <li>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".</li> <li>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".</li> </ol>                                                                                                                                                          |                                          |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                          |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CRef                                     | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |     |          |
| 2                           |       | +BasicServiceMTorTelephony(TSPX_MTNIC_BscS<br>vcD, TSPX_MTNIC_ChRateD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                          |     | 1.       |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECL_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                          |     | 2.       |
| 4                           |       | +PreEnterCCstateU9_34(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                          |     | 3.       |
| 5                           | body  | LIDL_DatRqRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ReleaseSnd(TCV_ch,<br>Release_03(TI_02)) |     | 4.       |
| 6                           |       | L?DL_DatInRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | RelComRcv(Release<br>Cmp_03(TI_01))      | (P) | 5.       |
| 7                           |       | +CheckTIsInStateU0(FALSE, TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |     |          |
| 8                           |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                          |     |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To select a basic service. if the MS supports telephony the selected basic service is telephony.</li> <li>2. One physical channel as BCCH, CCCH and SDCCH4.</li> <li>3. Bring MS to state U9.</li> <li>4. To send RELEASE message with cause = "normal, unspecified".</li> <li>5. The expected RELEASE COMPLETE received.</li> </ol>                                                                                                                                                                                                                                   |                                          |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_3_3_6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                                        |      |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef | V | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| 2                           |       | +BasicServiceMTorTelephony(TSPX_MTNIC_BscSvcE, TSPX_MTNIC_ChRateE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   | 1.       |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2) |      |   | 2.       |
| 4                           |       | +PreEnterCCstateU9_34(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   | 3.       |
| 5                           | body  | (TCV_Null := OM_LowerLayerFail( TCV_ch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   | 4.       |
| 6                           |       | START T_dly(20000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   | 5.       |
| 7                           |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
| 8                           |       | +CCEstablishMT_SDCCH4(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| 9                           |       | +CheckTIsInStateU0(FALSE, TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
| 10                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To select a basic service. if the MS supports telephony the selected basic service is telephony.</li> <li>2. One physical channel as BCCH, CCCH and SDCCH4.</li> <li>3. Bring MS to state U9.</li> <li>4. To generate lower layer failure.</li> <li>5. To wait 20 s for the MS to return to listening to paging.</li> </ol>                                                                                                                                                                                                 |      |   |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                 |     |          |
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| <b>Test Case Name:</b>      |       | TC_26_8_1_3_3_7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                 |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                 |     |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                 |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                 |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CRef                                            | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                 |     |          |
| 2                           |       | +BasicServiceMTorTelephony(TSPX_MTNIC_BscS<br>vcF, TSPX_MTNIC_ChRateF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                 |     | 1.       |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECL_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                                 |     | 2.       |
| 4                           |       | +PreEnterCCstateU9_34(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                 |     | 3.       |
| 5                           | body  | LIDL_DatRqUndefCC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | UndefCC(TCV_ch,<br>UndefCC_02(TI_02))           |     | 4.       |
| 6                           |       | L?DL_DatInCcst                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CCStRcv(TCV_ch,<br>CCStatus_08(TI_01,<br>C_U9)) | (P) |          |
| 7                           |       | +CCstatuschk_05(C_U9, TI_02, TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                 |     |          |
| 8                           |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |     |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To select a basic service. if the MS supports telephony the selected basic service is telephony.</li> <li>2. One physical channel as BCCH, CCCH and SDCCH4.</li> <li>3. Bring MS to state U9.</li> <li>4. To send an unknown message.</li> </ol>                                                                                                                                                                                                                                                                                                                       |                                                 |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                |     |          |
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| <b>Test Case Name:</b>      |       | TC_26_8_1_3_4_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                |     |          |
| <b>Purpose:</b>             |       | 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"                                                                                                                                                                                                                                                                                                                                                                                                          |                                |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CRef                           | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                |     |          |
| 2                           |       | +BasicServiceMTorTelephony(TSPX_MTNIC_BscS<br>vcG, TSPX_MTNIC_ChRateG)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                |     | 1.       |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                |     |          |
| 4                           |       | +CCConfigTCH_nociph(TSPX_TCHHSubDef,<br>C_Immass, TSPX_TmSlitDef, TSPX_TscDef,<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3, TCV_ChMod.mode, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                                     |                                |     |          |
| 5                           |       | +PreEnterCCstateU7_33( TSPX_TmSlitDef,<br>TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                |     |          |
| 6                           |       | (TCV_Null := OO_HookOff())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                |     |          |
| 7                           | body  | L?DL_DatInConn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ConnRcv(Connect_01<br>(TI_01)) | (P) | 2.       |
| 8                           |       | +CCstatuschk_05(C_U8, TI_02,<br>TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                |     | 3.       |
| 9                           |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                |     |          |
| <b>Detailed Comments:</b>   |       | 1. To select a basic service. if the MS supports telephony the selected basic service is telephony.<br>2. The expected CONNECT message received.<br>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 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                      |     |          |
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| <b>Test Case Name:</b>      |       | TC_26_8_1_3_4_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                      |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                      |     |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                      |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                      |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CRef                                                 | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                      |     |          |
| 2                           |       | +BasicServiceMTorTelephony(TSPX_MTNIC_BscS<br>vch, TSPX_MTNIC_ChRateH)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                      |     | 1.       |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                                      |     |          |
| 4                           |       | +CCConfigTCH_nociph(TSPX_TCHHSubDef,<br>C_Immass, TSPX_TmSlitDef, TSPX_TscDef,<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3, TCV_ChMod.mode, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                                   |                                                      |     |          |
| 5                           |       | +PreEnterCCstateU7_33(TSPX_TmSlitDef,<br>TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                      |     |          |
| 6                           | body  | (TCV_Null := OO_TermCall())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                      |     |          |
| 7                           |       | L?DL_DatInDisc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | DiscRcv(TCV_chTch,<br>DisconnR(TI_01,<br>Cause_Def)) | (P) | 2.       |
| 8                           |       | +CCstatuschk_05(C_U11, TI_02,<br>TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                      |     | 3.       |
| 9                           |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                      |     |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To select a basic service. if the MS supports telephony the selected basic service is telephony.</li> <li>2. The expected DISCONNECT message received.</li> <li>3. To check whether the MS is in the state U11. If not so the test case fails in the test step.</li> </ol>                                                                                                                                                                                                                                                                                             |                                                      |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                        |     |          |
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| <b>Test Case Name:</b>      |       | TC_26_8_1_3_4_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                        |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                        |     |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                          |                                                                        |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                        |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                                   | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                        |     |          |
| 2                           |       | +BasicServiceMTorTelephony(TSPX_MTNIC_BscSvcl,TSPX_MTNIC_ChRatel)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                        |     | 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                           |       | +PreEnterCCstateU7_31(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                        |     |          |
| 5                           | body  | LIDL_DatRqDisc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DiscSnd(TCV_ch, DisconnS(TI_02, Cause_01, ProgInd_03iei, UuInfo_omit)) |     | 3.       |
| 6                           |       | L?DL_DatInRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ReleaseRcv(Release_10(TI_01))                                          | (P) | 4.       |
| 7                           |       | +CCstatuschk_05(C_U19, TI_02, TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                        |     | 5.       |
| 8                           |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                        |     |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To select a basic service. if the MS supports telephony the selected basic service is telephony.</li> <li>2. To setup a physical channels as BCCH, CCCH and SDCCH4.</li> <li>3. To send DISCONNECT message with progress indicator indicating cause #8.</li> <li>4. The expected RELEASE message received.</li> <li>5. To check whether the MS is in the state U19.</li> </ol>                                                                                                                                              |                                                                        |     |          |



| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                          |   |          |
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| <b>Test Case Name:</b>      |       | TC_26_8_1_3_4_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                          |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |   |          |
| <b>Purpose:</b>             |       | <ol style="list-style-type: none"> <li>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".</li> <li>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".</li> </ol>                                                                                                                                                                              |                                          |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                          |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CRef                                     | V | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                          |   |          |
| 2                           |       | +BasicServiceMTorTelephony(TSPX_MTNIC_BscS<br>vcJ, TSPX_MTNIC_ChRateJ)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                          |   | 1.       |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECL_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                          |   | 2.       |
| 4                           |       | +PreEnterCCstateU7_31(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |   |          |
| 5                           | body  | LIDL_DatRqRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ReleaseSnd(TCV_ch,<br>Release_03(TI_02)) |   | 3.       |
| 6                           |       | L?DL_DatInRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | RelComRcv(Release<br>Cmp_03(TI_01))      |   | 4.       |
| 7                           |       | +CheckTIsInStateU0(FALSE, TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                          |   | 5.       |
| 8                           |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                          |   |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To select a basic service. if the MS supports telephony the selected basic service is telephony.</li> <li>2. To setup a physical channels as BCCH, CCCH and SDCCH4.</li> <li>3. To send RELEASE message with cause "Normal, unspecified".</li> <li>4. The expected RELEASE COMPLETE message received.</li> <li>5. To check that the CC entity has returned to state U0 with all transaction identifiers.</li> </ol>                                                                                                                                                      |                                          |   |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
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| <b>Test Case Name:</b>      |       | TC_26_8_1_3_4_5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CRef | V | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   |          |
| 2                           |       | +BasicServiceMTorTelephony(TSPX_MTNIC_BscS<br>vcA, TSPX_MTNIC_ChRateA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |   | 1.       |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |      |   | 2.       |
| 4                           |       | +PreEnterCCstateU7_32(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| 5                           | body  | (TCV_Null := OM_LowerLayerFail( TCV_ch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   |          |
| 6                           |       | START T_dly(20000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   |          |
| 7                           |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| 8                           |       | +CCEstablishMT_SDCCH4(TimingAdv(<br>0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |          |
| 9                           |       | +CheckTIsInStateU0(FALSE,<br>TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   |          |
| 10                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   |          |
| <b>Detailed Comments:</b>   |       | 1. To select a basic service. if the MS supports telephony the selected basic service is telephony.<br>2. To setup a physical channel as BCCH, CCCH and SDCCH4.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                     |   |          |
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| <b>Test Case Name:</b>      |       | TC_26_8_1_3_4_6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                     |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                     |   |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                     |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                     |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CRef                                                | V | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                     |   |          |
| 2                           |       | +BasicServiceMTorTelephony(TSPX_MTNIC_BscS<br>vcB, TSPX_MTNIC_ChRateB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     |   | 1.       |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                                     |   |          |
| 4                           |       | +CCConfigTCH_nociph(TSPX_TCHHSubDef,<br>C_Immass, TSPX_TmSlitDef, TSPX_TscDef,<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3, TCV_ChMod.mode, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                                   |                                                     |   |          |
| 5                           |       | +PreEnterCCstateU7_33(TSPX_TmSlitDef,<br>TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                     |   |          |
| 6                           | body  | L!DL_DatRqUndefCC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | UndefCC(TCV_chTch<br>, UndefCC_02(TI_02))           |   | 2.       |
| 7                           |       | L?DL_DatInCcst                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CCStRcv(TCV_chTch<br>, CCStatus_08(TI_01,<br>C_U7)) |   | 3.       |
| 8                           |       | +CCstatuschk_05(C_U7, TI_02,<br>TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                     |   | 4.       |
| 9                           |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                     |   |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To select a basic service. if the MS supports telephony the selected basic service is telephony.</li> <li>2. To send an unknown message to the MS.</li> <li>3. The expected STATUS message with cause #97 and state U7 received.</li> <li>4. To check that the MS remains in the state U7.</li> </ol>                                                                                                                                                                                                                                                                  |                                                     |   |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
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| <b>Test Case Name:</b>      |       | TC_26_8_1_3_4_7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CRef | V | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
| 2                           |       | +BasicServiceMTorTelephony(TSPX_MTNIC_BscS<br>vcC, TSPX_MTNIC_ChRateC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   | 1.       |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |      |   |          |
| 4                           |       | +CCConfigTCH(TSPX_TCHHSubDef, C_Ass,<br>TSPX_TmSlitDef, TSPX_TscDef, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>TCV_ChMod.mode, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                                               |      |   |          |
| 5                           |       | +PreEnterCCstateU7_31(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 6                           | body  | +CCAssignTCH(TSPX_TmSlitDef,<br>TSPX_TscDef)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   | 2.       |
| 7                           |       | +CCstatuschk_05(C_U7, TI_02,<br>TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   | 3.       |
| 8                           |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To select a basic service. if the MS supports telephony the selected basic service is telephony.</li> <li>2. The assignment procedure succeeded.</li> <li>3. To check whether the MS remains in the state U7.</li> </ol>                                                                                                                                                                                                                                                                                                                                                 |      |   |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                |   |          |
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| <b>Test Case Name:</b>      |       | TC_26_8_1_3_4_8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                |   |          |
| <b>Purpose:</b>             |       | 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".<br>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".                                                                                                                                                                                                                                                                                |                                                |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CRef                                           | V | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                |   |          |
| 2                           |       | +BasicServiceMTorTelephony(TSPX_MTNIC_BscS<br>vcD, TSPX_MTNIC_ChRateD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                |   | 1.       |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECL_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                                |   | 2.       |
| 4                           |       | +PreEnterCCstateU7_31(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                |   |          |
| 5                           | body  | LIDL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | RelComSnd(TCV_ch,<br>ReleaseCmp_04(TI_0<br>2)) |   |          |
| 6                           |       | +CheckTIsInStateU0(FALSE, TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |   | 3.       |
| 7                           |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                |   |          |
| <b>Detailed Comments:</b>   |       | 1. To select a basic service. if the MS supports telephony the selected basic service is telephony.<br>2. To setup a physical channels as BCCH, CCCH and SDCCH4.<br>3. To check that the CC entities relating to the seven MT transaction identifiers are in state U0.                                                                                                                                                                                                                                                                                                                                           |                                                |   |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                             |   |          |
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| <b>Test Case Name:</b>      |       | TC_26_8_1_3_5_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                             |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |   |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                                                                                                                                                |                                             |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                             |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                        | V | 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_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(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))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |   |          |
| 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                             |   |          |
| <b>Detailed Comments:</b>   |       | 1. To select a basic service. if the MS supports telephony the selected basic service is telephony.<br>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 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                |     |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_3_5_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                |     |          |
| <b>Purpose:</b>             |       | To verify that a CC entity of a MS in CC-state U8, "Connect Request", having waited for a reasonable length of time (e.g. 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"                                                                                                                                                                                             |                                                |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                           | V   | 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_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(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))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                |     |          |
| 6                           | body  | +localtree1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                |     |          |
|                             |       | <b>localtree1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                |     |          |
| 7                           |       | START T_dly(15000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                |     |          |
| 8                           |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                |     |          |
| 9                           |       | START T_dly(18000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                |     |          |
| 10                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                | (F) |          |
| 11                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                |     |          |
| 12                          |       | 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                |     |          |
| <b>Detailed Comments:</b>   |       | <p>1. To select a basic service. if the MS supports telephony the selected basic service is telephony.</p> <p>2. The expected DISCONNECT message received within the time interval with any valid cause location and cause value.</p> <p>3. To check whether the MS is in the expected U11 state.</p>                                                                                                                                                                                                                                                                 |                                                |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                |     |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_3_5_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                |     |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                                                                                                          |                                                |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                           | V   | 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_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(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))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                |     |          |
| 6                           | body  | (TCV_Null := OO_TermCall())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                |     | 2.       |
| 7                           |       | 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                |     |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To select a basic service. if the MS supports telephony the selected basic service is telephony.</li> <li>2. The user terminates the call.</li> <li>3. The expected DISCONNECT message received.</li> <li>4. To check whether the MS is in the expected U11 state.</li> </ol>                                                                                                                                                                                                                                               |                                                |     |          |



| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                           |     |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_3_5_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                           |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                           |     |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                        |                                                                           |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                           |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                                      | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                           |     |          |
| 2                           |       | +BasicServiceMTorTelephony(TSPX_MTBscSvcF, TSPX_MTChRateF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                           |     | 1.       |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECL_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, 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                           |       | +PreEnterCCstateU8_33(TSPX_TmSlitDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                           |     |          |
| 6                           | body  | L!DL_DatRqDisc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DiscSnd(TCV_chTch, DisconnS(TI_02, Cause_01, ProgInd_03iei, UuInfo_omit)) |     |          |
| 7                           |       | [TCV_ChMod.mode = C_ChMod_r]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                           |     | 2.       |
| 8                           |       | +CCstatuschk_05(C_U12, TI_02, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                           |     |          |
| 9                           |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                           |     |          |
| 10                          |       | [TCV_ChMod.mode <> C_ChMod_r]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                           |     | 3.       |
| 11                          |       | L?DL_DatInRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ReleaseRcv(Release_10(TI_01))                                             | (P) |          |
| 12                          |       | +CCstatuschk_05(C_U19, TI_02, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                           |     |          |
| 13                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                           |     |          |
| <b>Detailed Comments:</b>   |       | 1. To select a basic service. if the MS supports telephony the selected basic service is telephony.<br>2. TCH is in speech mode.<br>3. TCH is not in speech mode.                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                           |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                          |     |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_3_5_5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                          |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                          |     |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                                                                                              |                                                                          |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                          |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                                     | V   | 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))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                          |     |          |
| 6                           | body  | LIDL_DatRqDisc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DiscSnd(TCV_chTch, DisconnS(TI_02, Cause_01, ProgInd_omit, UuInfo_omit)) |     |          |
| 7                           |       | L?DL_DatInRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ReleaseRcv(Release_10(TI_01))                                            | (P) | 2.       |
| 8                           |       | +CCstatuschk_05(C_U19, TI_02, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                          |     |          |
| 9                           |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                          |     |          |
| <b>Detailed Comments:</b>   |       | 1. To select a basic service. if the MS supports telephony the selected basic service is telephony.<br>2. The expected RELEASE message received.                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                          |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                           |     |          |
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| <b>Test Case Name:</b>      |       | TC_26_8_1_3_5_6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                           |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |     |          |
| <b>Purpose:</b>             |       | 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".<br>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".                                                                                                                                                                                       |                                           |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                           |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                      | V   | 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_NECL_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, 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                           |       | +PreEnterCCstateU8_33(TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                           |     |          |
| 6                           | body  | L!DL_DatRqRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ReleaseSnd(TCV_ch Tch, Release_03(TI_02)) |     |          |
| 7                           |       | L?DL_DatInRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | RelComRcv(Release Cmp_03(TI_01))          | (P) | 2.       |
| 8                           |       | +CheckTlInStateU0(FALSE, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                           |     |          |
| 9                           |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                           |     |          |
| <b>Detailed Comments:</b>   |       | 1. To select a basic service. if the MS supports telephony the selected basic service is telephony.<br>2. The expected RELEASE COMPLETE message received.                                                                                                                                                                                                                                                                                                                                                                                                             |                                           |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_3_5_7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
| <b>Purpose:</b>             |       | 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".                                                                                                                                                                                                                                                                                                                      |      |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef | V | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
| 2                           |       | +BasicServiceMTorTelephony(TSPX_MTBscSvcI, TSPX_MTChRatel)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   | 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))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
| 5                           | body  | (TCV_Null := OM_LowerLayerFail( TCV_ch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   | 3.       |
| 6                           |       | START T_dly(20000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
| 7                           |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
| 8                           |       | +CCEstablishMT_SDCCH4(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
| 9                           |       | +CheckTIsInStateU0(FALSE, TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| 10                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |          |
| <b>Detailed Comments:</b>   |       | 1. To select a basic service. if the MS supports telephony the selected teleservice is telephony.<br>2. To setup a physical channel as BCCH, CCCH and SDCCH4.<br>3. To generate lower layer failure.                                                                                                                                                                                                                                                                                                                                                                |      |   |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_3_5_8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                     |      |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef | V | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| 2                           |       | +BasicServiceMTorTelephony(TSPX_MTBscSvcJ, TSPX_MTChRateJ)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   | 1.       |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_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_31(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| 6                           | body  | +CCAssignTCH(TSPX_TmSlitDef, TSPX_TscDef)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   | 2.       |
| 7                           |       | +CCstatuschk_05(C_U8, TI_02, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   | 3.       |
| 8                           |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |   |          |
| <b>Detailed Comments:</b>   |       | 1. To select a basic service. if the MS supports telephony the selected basic service is telephony.<br>2. To assign a suitable traffic channel.<br>3.. To check whether the MS is still in the state U8.                                                                                                                                                                                                                                                                                                                                                              |      |   |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                           |     |          |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_3_5_9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                           |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |     |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                                                                                                            |                                           |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                           |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CRef                                      | V   | 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_Immss, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, 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) |                                           |     | 2.       |
| 4                           |       | +PreEnterCCstateU8_31(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |     |          |
| 5                           | body  | L!DL_DatRqUndefCC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | UndefCC(TCV_ch, UndefCC_02(TI_02))        |     | 3.       |
| 6                           |       | 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                           |     |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To select a basic service. if the MS supports telephony the selected basic service is telephony.</li> <li>2. To setup a physical channel as BCCH, CCCH and SDCCH4.</li> <li>3. To send an unknown message to the MS.</li> <li>4. The expected STATUS message with cause #97 and state U8 received.</li> <li>5. To check whether the MS is still in the state U8.</li> </ol>                                                                                                                                              |                                           |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
|-----------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_4_1_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   |          |
| <b>Purpose:</b>             |       | 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.<br>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. |      |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
| <b>Comments:</b>            |       | The test is carried on full rate speech.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | CRef | V | 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)                                                                             |      |   | 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                           |       | +PreEnterCCstateU10(TCV_Setup_mt, TSPX_TmSlitDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   | 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                          |       | [NOT TSPC_BasCharSet]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      | I |          |
|                             |       | <b>continue</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
| 18                          |       | +localtree1("#")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 19                          |       | +localtree1("**")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   |          |
| 20                          |       | [TSPC_AddCharSet]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   | 4.       |
| 21                          |       | +localtree1("A")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 22                          |       | +localtree1("B")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 23                          |       | +localtree1("C")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 24                          |       | +localtree1("D")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 25                          |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
| 26                          |       | [NOT TSPC_AddCharSet]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |   |          |
| 27                          |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   | 5.       |
|                             |       | <b>localtree</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 28                          |       | (TCV_Null := OO_ShortKeyDepr("0"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |

|    |                                                                                                              |                                                              |        |
|----|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|--------|
| 29 | L?DL_DatInStartDtmf                                                                                          | StartDTMFRcv(StartDtmf_01(TI_01, "0"))                       |        |
| 30 | LIDL_DatRqStartDtmfRej                                                                                       | StartDTMFRejSnd(TCV_chTch, StartDtmfRej_01(TI_02))           |        |
| 31 | +CCstatuschk_05(C_U10, TI_02, TCV_chTch)                                                                     |                                                              | 6.     |
| 32 | +PostMainLinkRel(TCV_chTch)                                                                                  |                                                              |        |
|    | <b>localtree1(character:IA5String)</b><br>(TCV_Null := OO_ShortKeyDepr(character),<br>TCV_Char := character) |                                                              |        |
| 33 | L?DL_DatInStartDtmf                                                                                          | StartDTMFRcv(StartDtmf_01(TI_01, TCV_Char))                  |        |
| 34 | LIDL_DatRqStartDtmfAck                                                                                       | StartDTMFackSnd(TCV_chTch, StartDtmfAck_01(TI_02, TCV_Char)) |        |
| 35 |                                                                                                              |                                                              |        |
| 36 | +CCstatuschk_05(C_U10, TI_02, TCV_chTch)                                                                     |                                                              | 6.     |
| 37 | [TSPX_DTMFInd]                                                                                               |                                                              |        |
| 38 | (TCV_Res := OO_DTMFIndCHK(character))                                                                        |                                                              |        |
| 39 | [NOT TCV_Res]                                                                                                |                                                              | (F) 7. |
| 40 | +PostMainLinkRel(TCV_chTch)                                                                                  |                                                              |        |
| 41 | [TCV_Res]                                                                                                    |                                                              | (P) 8. |
| 42 | +localtree2                                                                                                  |                                                              |        |
| 43 | [NOT TSPX_DTMFInd]                                                                                           |                                                              |        |
| 44 | +localtree2                                                                                                  |                                                              |        |
|    | <b>localtree2</b>                                                                                            |                                                              |        |
| 45 | L?DL_DatInStopDtmf                                                                                           | StopDTMFRcv(StopDtmf_01(TI_01))                              |        |
| 46 | LIDL_DatRqStopDtmfAck                                                                                        | StopDTMFackSnd(TCV_chTch, StopDtmfAck_01(TI_02))             |        |
| 47 | +CCstatuschk_05(C_U10, TI_02, TCV_chTch)                                                                     |                                                              | 6.     |

**Detailed Comments:**

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>               |       | GSM_L3_MS_v4180/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>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                           |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                      | V | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                           |   |          |
| 2                           |       | +BasicServiceMT(TSPX_MTBscSvcA, TSPX_MTChRateA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                           |   |          |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_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                           |       | +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(TCV_Setup_mt, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                           |   | 2.       |
| 6                           | body  | LIDL_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>   |       | <ol style="list-style-type: none"> <li>1. To setup 2 physical channels one as BCCH, CCCH and SDCCH4, another as full rate traffic channel.</li> <li>2. To bring the MS into the state U10 for speech by generic call setup procedure.</li> <li>3. To send the NOTIFY message to the MS.</li> <li>4. To verify whether the MS is still in the state U10, the verdict is assigned in the test step.</li> </ol>                                                                                                                                                          |                                           |   |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                 |   |          |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_4_3_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                 |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                 |   |          |
| <b>Purpose:</b>             |       | To verify that the MS being in the call active state after having successfully completed a channel assignment or having completed a handover command remains in the call active state.                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                 |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                 |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CRef                                                            | V | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                 |   |          |
| 2                           |       | +BasicServiceMT(TSPX_MTBscSvcC,<br>TSPX_MTChRateC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                 |   |          |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                                                 |   |          |
| 4                           |       | +CCConfigTCH_nociph(TSPX_TCHHSubDef,<br>C_Ass, TSPX_TmSltDef, TSPX_TscDef,<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3, TCV_ChMod.mode, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                 |   | 1.       |
| 5                           |       | [TCV_ChRate = C_Full]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                 |   |          |
| 6                           |       | +FullRateCh_A_2(C_Synho,<br>TSPX_TmSltC, TSPX_TscDef,<br>TCV_ChMod, FreqTCH(C_arfcn_tchA),<br>FreqTCH(C_arfcn_tchAd), TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                 |   | 2.       |
| 7                           |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                 |   |          |
| 8                           |       | [TCV_ChRate = C_Half]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                 |   |          |
| 9                           |       | +HalfRateCh_A_2(TSPX_TCHHSubDef,<br>C_Synho, TSPX_TmSltC, TSPX_TscDef,<br>TCV_ChMod, FreqTCH(C_arfcn_tchA),<br>FreqTCH(C_arfcn_tchAd), TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                 |   | 3.       |
| 10                          |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                 |   |          |
| 11                          |       | <b>localtree</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                 |   |          |
| 11                          |       | (TCV_Tchtype := TCV_chtype)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                 |   |          |
| 12                          |       | +PreEnterCCstateU10( TCV_Setup_mt,<br>TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                 |   | 4.       |
| 13                          |       | (TCV_ch := TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                 |   |          |
| 14                          |       | +CCConfigTCH(TSPX_TCHHSubA, C_Synho,<br>TSPX_TmSltA, TSPX_TscDef, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>TCV_ChMod.mode, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                 |   |          |
| 15                          |       | +AssCmdGen(C_CellA, TCV_ChRate,<br>TSPX_TmSltA, TSPX_TscA,<br>TSPX_TCHHSubA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                 |   |          |
| 16                          | body  | +Adjust_gsmanddcs_powerlvl(0,<br>3,TCV_AssCmd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                 |   |          |
| 17                          |       | +AssCh_complete(TCV_ch, TCV_chTch,<br>TCV_AssCmd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                 |   | 5.       |
| 18                          |       | +CCstatuschk_05(C_U10, TI_02,<br>TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                 |   | 7.       |
| 19                          |       | +handover                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                 |   |          |
| 20                          |       | L?DL_RacInHoacc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                 |   |          |
| 20                          |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | HndOvAccRcv(TCV_c<br>hTch1,<br>HandOverAcc_02(TS<br>PX_HoRefA)) |   |          |
| 21                          |       | L?DL_RacInHoacc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                 |   |          |
| 21                          |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | HndOvAccRcv(TCV_c                                               |   |          |

|                           |  |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |    |
|---------------------------|--|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 22                        |  | L?DL_RaInHoacc                                   | hTch1,<br>HandOverAcc_02(TS<br>PX_HoRefA))<br>HndOvAccRcv(TCV_c<br>hTch1,<br>HandOverAcc_02(TS<br>PX_HoRefA))                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |    |
| 23                        |  | L?DL_RaInHoacc                                   | HndOvAccRcv(TCV_c<br>hTch1,<br>HandOverAcc_02(TS<br>PX_HoRefA))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |    |
| 24                        |  | L?DL_EstIn                                       | DLEstInd(TCV_chTch<br>1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |    |
| 25                        |  | L?DL_DatInHoCom                                  | HndOvCmpRcv(TCV_<br>chTch1,<br>HandOverCmp_01)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | (P) | 6. |
| 26                        |  | +CCstatuschk_05(C_U<br>10, TI_02,<br>TCV_chTch1) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     | 7. |
| 27                        |  | +PostMainLinkRel(TC<br>V_chTch1)                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |    |
| 28                        |  | <b>handover</b><br>[TSPC_PGSM OR TSPC_EGSM]      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |    |
| 29                        |  | L!DL_DatRqHoCmd                                  | HndOvSnd(TCV_chT<br>ch,<br>HandOverCmd(TCV_<br>Tchtype,<br>TSPX_TmSlTc,<br>TSPX_TscDef,<br>C_arfcnA, C_arfcnA,<br>TSPX_HoRefA, 7,<br>C_not_report_otd,<br>C_synchronized,<br>RelTmdDif_omit,<br>TimingAdv_omit,<br>CphMod_omit))                                                                                                                                                                                                                                                                                                                |     |    |
| 30                        |  | [TSPC_DCS]                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |    |
| 31                        |  | L!DL_DatRqHoCmd                                  | HndOvSnd(TCV_chT<br>ch,<br>HandOverCmd(TCV_<br>Tchtype,<br>TSPX_TmSlTc,<br>TSPX_TscDef,<br>C_arfcnAd,<br>C_arfcnAd,<br>TSPX_HoRefA, 3,<br>C_not_report_otd,<br>C_synchronised,<br>RelTmdDif_omit,<br>TimingAdv_omit,<br>CphMod_omit))                                                                                                                                                                                                                                                                                                           |     |    |
| <b>Detailed Comments:</b> |  |                                                  | <ol style="list-style-type: none"> <li>1. To setup a physical channels as full rate traffic channel or half traffic channel.</li> <li>2. To setup a physical channel as second full rate traffic channel.</li> <li>3. To setup a physical channel as the second half rate traffic channel.</li> <li>4. To bring the MS into U10 state by MT call generic setup procedure.</li> <li>5. The assignment procedure succeeds.</li> <li>6. The handover procedure succeeds.</li> <li>7. To check whether the MS is still in the state U10.</li> </ol> |     |    |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                          |     |          |
|-----------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_4_3_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                          |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |     |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                          |     |          |
| <b>Default:</b>             |       | OtherEventsFail_01, RcvHdOvAcc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                          |     |          |
| <b>Comments:</b>            |       | bearer capability TSPX_BCd is used in the test case. The generic MT call setup procedure is used.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                          |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CRef                                     | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |     |          |
| 2                           |       | +BasicServiceMT(TSPX_MTBscSvcD,<br>TSPX_MTChRateD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                          |     |          |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immss, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                          |     |          |
| 4                           |       | +CCConfigTCH_nociph(TSPX_TCHHSubDef,<br>C_Ass, TSPX_TmSltDef, TSPX_TscDef,<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3, TCV_ChMod.mode, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                                        |                                          |     |          |
| 5                           |       | +StartCellB_1(C_E_suitable,<br>C_Rcv,TCV_slot, TCV_tsc, TimingAdv(0), 0,<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_MCC_1, C_PLMN_1,<br>C_LAC_2, C_noRestablishment, C_BCC,<br>C_NCC)                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          |     | 1.       |
| 6                           |       | (TCV_ch1 :=<br>OC_SubchOfSdcch4(TSPX_SDCCH4SubD<br>ef, C_CellB), TCV_sacch_B :=<br>OC_SubchOfSacch4(TSPX_SDCCH4SubD<br>ef, C_CellB), TCV_Null :=<br>OM_CphMd(TCV_ch1, CphMod_01,<br>TCV_CphKey))                                                                                                                                                                                                                                                                                                                                                                                                                  |                                          |     |          |
| 7                           |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                          |     |          |
|                             |       | <b>localtree</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                          |     |          |
| 8                           |       | +PreEnterCCstateU10(TCV_Setup_mt,<br>TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                          |     |          |
| 9                           | body  | +handover                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                          |     |          |
| 10                          |       | REPEAT local_hobursts UNTIL [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                          |     |          |
| 11                          |       | L?DL_EstIn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DLEstInd(TCV_chTch<br>)                  |     |          |
| 12                          |       | L?DL_DatInHofl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | HndOvFIRcv(TCV_ch<br>Tch, HandOvFail_01) | (P) | 2.       |
| 13                          |       | +CCstatuschk_05(C_U10, TI_02,<br>TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                          |     | 3.       |
| 14                          |       | +AssCmdGen_fh(C_Full, TCV_slot,<br>TCV_ts, TSPX_TCHHSubDef, 7, 7,<br>'000000'B, '000000'B, Frql_02, Frql_02,<br>CellChDes_12, CellChDes_12d,<br>ChMod_sign_iei, MobilAllc_02,<br>MobilAllc_02, CphMod_omit)                                                                                                                                                                                                                                                                                                                                                                                                       |                                          |     |          |
| 15                          |       | +AssCh_failure(TCV_chTch,<br>TCV_AssCmd, FALSE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                          |     | 4.       |
| 16                          |       | +CCstatuschk_05(C_U10, TI_02,<br>TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                          |     | 3.       |
| 17                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                          |     |          |
|                             |       | <b>handover</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                          |     |          |

|                           |                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                  |             |
|---------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 18                        | (TCV_Tchtype := INT_TO_BIT((4 +<br>BIT_TO_INT(TSPX_SDCCH4SubDef)), 5), TCV_Res<br>:= FALSE) |                                                                                                                                                                                                                                                                                                                                                                                                  |             |
| 19                        | [TSPC_PGSM OR TSPC_EGSM]                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                  |             |
| 20                        | LIDL_DatRqHoCmd                                                                             | HndOvSnd(TCV_chT<br>ch,<br>HandOverCmd(TCV_<br>Tchtype, TCV_slot,<br>TCV_tsc, C_arfcnB,<br>C_arfcnB,<br>TSPX_HoRefB, 7,<br>C_report_otd,<br>C_non_synchronized,<br>RelTmdDif_omit,<br>TimingAdv_omit,<br>CphMod_02iei))                                                                                                                                                                          | Non-sync HO |
| 21                        | START T_dly(C_T_T3124)                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                  |             |
| 22                        | [TSPC_DCS]                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                  |             |
| 23                        | LIDL_DatRqHoCmd                                                                             | HndOvSnd(TCV_chT<br>ch,<br>HandOverCmd(TCV_<br>Tchtype, TCV_slot,<br>TCV_tsc, C_arfcnBd,<br>C_arfcnBd,<br>TSPX_HoRefB, 3,<br>C_report_otd,<br>C_non_synchronized,<br>RelTmdDif_omit,<br>TimingAdv_omit,<br>CphMod_02iei))                                                                                                                                                                        | Non-sync HO |
| 24                        | START T_dly(C_T_T3124)                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                  |             |
| 25                        | <b>local_hobursts</b><br>L?DL_RaInHoacc                                                     | HndOvAccRcv(TCV_c<br>h1,<br>HandOverAcc_02(TS<br>PX_HoRefB))                                                                                                                                                                                                                                                                                                                                     |             |
| 26                        | ?TIMEOUT                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                  |             |
| 27                        | (TCV_Res := TRUE)                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                  |             |
| <b>Detailed Comments:</b> |                                                                                             | <ol style="list-style-type: none"> <li>1. To setup a physical channel as BCCH, CCCH and SDCCH4 used as cell B.</li> <li>2. The expected HANDOVER FAILURE message received on the old channel.</li> <li>3. To check whether the MS is still in the state U10, if no test case fails in the test step.</li> <li>4. The expected ASSIGNMENT FAILURE message received on the old channel.</li> </ol> |             |

| Test Case Dynamic Behaviour                                                                                                                                                                                                                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                           |     |                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------|
| <b>Test Case Name:</b> TC_26_8_1_4_4_1                                                                                                                                                                                                                 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                           |     |                       |
| <b>Group:</b> GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                           |     |                       |
| <b>Purpose:</b>                                                                                                                                                                                                                                        |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                           |     |                       |
| 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.                                                                                  |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                           |     |                       |
| <b>Default:</b> OtherEventsFail                                                                                                                                                                                                                        |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                           |     |                       |
| <b>Comments:</b> The generic MT call setup procedure is used to bring the MS into U10 state.                                                                                                                                                           |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                           |     |                       |
| Nr                                                                                                                                                                                                                                                     | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CRef                                                                                                                                                                                                                                                                                      | V   | Comments              |
| 1                                                                                                                                                                                                                                                      |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                           |     |                       |
| 2                                                                                                                                                                                                                                                      |       | [(TSPX_MT_DualModSvc <> C_AltSpchData)<br>OR(TSPX_MT_DualModSvc <> C_SpchData)<br>OR(TSPX_MT_DualModSvc <> C_AltSpchFax)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                           | I   | not dual mode service |
| 3                                                                                                                                                                                                                                                      |       | [(TSPX_MT_DualModSvc = C_AltSpchData) OR<br>(TSPX_MT_DualModSvc = C_SpchData) OR<br>(TSPX_MT_DualModSvc = C_AltSpchFax)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                           |     |                       |
| 4                                                                                                                                                                                                                                                      |       | +BasicServiceMT(TSPX_MT_DualModSvc,<br>C_Full)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                           |     |                       |
| 5                                                                                                                                                                                                                                                      |       | +IdleUpdated(C_E_default, C_CellA,<br>C_SCH_A, C_BCCH_A_1, C_Immass, C_S0,<br>C_SlotNU, C_SlotNU, C_SlotNU, C_BCC,<br>C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0,<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3, C_T3212_0, C_ci_cellA,<br>C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01,<br>CellChDes_Omit, CellChDes_Omit,<br>C_CellReselectHys12, C_MaxPwrLvIG,<br>C_MaxPwrLvID, BcchFreqLst_45,<br>BcchFreqLst_02, BcchFreqLst_03,<br>BcchFreqLst_04, C_Restablishment, C_BCC,<br>C_NCC, C_Start_Tmsi,<br>TSPX_SDCCH4SubDef, TSPX_CKSNDf,<br>TSPX_RANDDef, C_arfcnA, C_arfcnAd,<br>TSPX_IMSI, C_Test_nfh, C_NCCP_2) |                                                                                                                                                                                                                                                                                           |     |                       |
| 6                                                                                                                                                                                                                                                      |       | +CCConfigTCH(TSPX_TCHHSubDef, C_Ass,<br>TSPX_TmSlitDef, TSPX_TscDef,<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3, TCV_ChMod.mode,<br>FreqTCH_omit, FreqTCH_omit,<br>C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                           |     |                       |
| 7                                                                                                                                                                                                                                                      |       | +PreEnterCCstateU10(TCV_Setup_mt,<br>TSPX_TmSlitDef, TSPX_TscDef,<br>TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                           |     |                       |
| 8                                                                                                                                                                                                                                                      |       | L!DL_DatRqModify                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ModifySnd(TCV_chTch,<br>ModifyReq_01(TI_02,<br>Bcap_MT(C_UDI,<br>C_Unstructured,<br>C_nirr_nomeaning,<br>C_rate_adaption_V11<br>0, C_I440_450,<br>C_Synchronous,<br>TSPX_TE_stopbit,<br>TSPX_TE_databit,<br>C_4800bs, C_ir_8kbs,<br>TSPX_TE_parity,<br>C_transparent,<br>C_modemt_none))) |     |                       |
| 9                                                                                                                                                                                                                                                      |       | [TSPC_InCallMod]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                           |     | 1.                    |
| 10                                                                                                                                                                                                                                                     |       | L?DL_DatInModifyRej                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ModifyRejRcv(TCV_chTch,<br>ModifyRj_01(TI_01,<br>TCV_Setup_mt.bcap1<br>)                                                                                                                                                                                                                  | (P) |                       |
| 11                                                                                                                                                                                                                                                     |       | +CCstatuschk_05(C_U10, TI_02,<br>TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                           |     |                       |
| 12                                                                                                                                                                                                                                                     |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                           |     |                       |
| 13                                                                                                                                                                                                                                                     |       | [NOT TSPC_InCallMod]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                           |     | 2.                    |
| 14                                                                                                                                                                                                                                                     |       | L?DL_DatInCcst                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CCStRcv(TCV_chTch,<br>,                                                                                                                                                                                                                                                                   | (P) |                       |

|                                                         |  |                                             |                               |  |  |
|---------------------------------------------------------|--|---------------------------------------------|-------------------------------|--|--|
| 15                                                      |  | +CCstatuschk_05(C_U10, TI_02,<br>TCV_chTch) | CCStatus_08(TI_01,<br>C_U10)) |  |  |
| 16                                                      |  | +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 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                |     |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_4_5_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                |     |          |
| <b>Purpose:</b>             |       | 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.<br>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. |                                                                                                |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CRef                                                                                           | V   | 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)                         |                                                                                                |     |          |
| 4                           |       | +CCConfigTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChModb.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                |     |          |
| 5                           |       | +PreModifySetup(TSPX_TmSlitDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                | 1.  |          |
| 6                           | body  | +CCstatuschk_05(C_U26, TCV_TI, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                |     |          |
| 7                           |       | L!DL_DatRqChmmo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ChmmoReqSnd(TCV_chTch, ChmomoReq_07(TCV_chtype, TCV_ChModb.mode, TSPX_TmSlitDef, TSPX_TscDef)) |     |          |
| 8                           |       | L?DL_DatInChmmoAck                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ChmmoAckRcv(TCV_chTch, ChmomoAck_08(TCV_chtype, TCV_ChModb.mode, TSPX_TmSlitDef, TSPX_TscDef)) | (P) | 2.       |
| 9                           |       | (TCV_Res := OC_RcsdPresent(TCV_Modify))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                |     |          |
| 10                          |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                |     |          |
| 11                          |       | L!DL_DatRqModifyCom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ModifyCmpSnd(TCV_chTch, ModifyComp_02(TCV_TI, TCV_Bcap2))                                      |     |          |
| 12                          |       | +local_continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                |     |          |
| 13                          |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                |     |          |
| 14                          |       | L!DL_DatRqModifyCom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ModifyCmpSnd(TCV_chTch, ModifyComp_03(TCV_TI, TCV_Bcap2))                                      |     |          |
| 15                          |       | +local_continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                |     |          |
|                             |       | <b>local_continue</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                |     |          |
| 16                          |       | START T_dly(2000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                |     |          |



|                                                                                |  |                                                       |  |     |    |
|--------------------------------------------------------------------------------|--|-------------------------------------------------------|--|-----|----|
| 17                                                                             |  | ?TIMEOUT T_dly                                        |  |     |    |
| 18                                                                             |  | +CCstatuschk_05(C_U10, TCV_TI, TCV_chTch)             |  |     |    |
| 19                                                                             |  | (TCV_Res := OM_BmInfo(TCV_chTch,<br>TCV_ChModb.mode)) |  |     |    |
| 20                                                                             |  | [TCV_Res]                                             |  | (P) | 3. |
| 21                                                                             |  | +PostMainLinkRel(TCV_chTch)                           |  |     |    |
| 22                                                                             |  | [NOT TCV_Res]                                         |  | (F) |    |
| 23                                                                             |  | +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                                                                                                                                                                                                                                                                                       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                |   |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|---|----------|
| <b>Test Case Name:</b> TC_26_8_1_4_5_2                                                                                                                                                                                                                                                                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                |   |          |
| <b>Group:</b> GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                |   |          |
| <b>Purpose:</b> 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. |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                |   |          |
| <b>Default:</b> OtherEventsFail                                                                                                                                                                                                                                                                                   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                |   |          |
| Nr                                                                                                                                                                                                                                                                                                                | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CRef                                                           | V | Comments |
| 1                                                                                                                                                                                                                                                                                                                 |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                |   |          |
| 2                                                                                                                                                                                                                                                                                                                 |       | +BasicServiceMO(TSPX_MO_DualModSvc,<br>TSPX_MO_DualModRate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                |   |          |
| 3                                                                                                                                                                                                                                                                                                                 |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                                                |   |          |
| 4                                                                                                                                                                                                                                                                                                                 |       | +CCConfigTCH(TSPX_TCHHSubDef, C_Ass,<br>TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>TCV_ChMod.mode, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                |   |          |
| 5                                                                                                                                                                                                                                                                                                                 |       | +PreModifySetup(TSPX_TmSltDef,<br>TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                |   | 1.       |
| 6                                                                                                                                                                                                                                                                                                                 | body  | !DL_DatRqModifyRej                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ModifyRejRqSnd(TCV_chTch,<br>ModifyRjRq_01(TCV_TI, TCV_Bcap1)) |   |          |
| 7                                                                                                                                                                                                                                                                                                                 |       | +CCstatuschk_05(C_U10, TCV_TI,<br>TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                |   | 2.       |
| 8                                                                                                                                                                                                                                                                                                                 |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                |   |          |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                         |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                |   |          |
| 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 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                       |   |          |
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| <b>Test Case Name:</b>      |       | TC_26_8_1_4_5_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                       |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                       |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CRef                                                                  | V | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                       |   |          |
| 2                           |       | +BasicServiceMO(TSPX_MO_DualModSvc,<br>TSPX_MO_DualModRate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                       |   |          |
| 3                           |       | +IdleUpdated(C_E_default, C_Cella, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                                                       |   |          |
| 4                           |       | +CCConfigTCH(TSPX_TCHHSubDef, C_Ass,<br>TSPX_TmSlitDef, TSPX_TscDef, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>TCV_ChMod.mode, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                       |   |          |
| 5                           |       | +PreModifySetup(TSPX_TmSlitDef,<br>TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                       |   | 1.       |
| 6                           | body  | LIDL_DatRqModifyCom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ModifyCmpSnd(TCV_<br>chTch,<br>ModifyComp_03(TCV_<br>_TI, TCV_Bcap2)) |   | 2.       |
| 7                           |       | +CCstatuschk_05(C_U26, TCV_TI,<br>TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                       |   | 3.       |
| 8                           |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                       |   |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To attempt a dual mode call.</li> <li>2. The mode (TCV_Bcap1) does not correspond to the requested one (TCV_Bcap2).</li> <li>3. To check whether the MS does not take any action and the verdict is assigned in the test step.</li> </ol>                                                                                                                                                                                                                                                                                                                                |                                                                       |   |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                |   |          |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_4_5_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                |   |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CRef                                                           | V | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                |   |          |
| 2                           |       | +BasicServiceMO(TSPX_MO_DualModSvc,<br>TSPX_MO_DualModRate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                |   |          |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_7, C_NECL_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                                                |   |          |
| 4                           |       | +CCConfigTCH(TSPX_TCHHSubDef, C_Ass,<br>TSPX_TmSlitDef, TSPX_TscDef, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>TCV_ChMod.mode, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                |   |          |
| 5                           |       | +PreModifySetup(TSPX_TmSlitDef,<br>TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |   | 1.       |
| 6                           | body  | L!DL_DatRqModifyRej                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ModifyRejRqSnd(TCV_chTch,<br>ModifyRjRq_01(TCV_TI, TCV_Bcap1)) |   | 2.       |
| 7                           |       | +CCstatuschk_05(C_U26, TCV_TI,<br>TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                |   | 3.       |
| 8                           |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                |   |          |
| <b>Detailed Comments:</b>   |       | 1. To attempt a dual mode call.<br>2. The mode (TCV_Bcap1) does not correspond to the actual one (TCV_Bcap2).<br>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>               |       | GSM_L3_MS_v4180/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>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                 |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                            | V   | 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_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(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                           |       | +PreModifySetup(TSPX_TmSlitDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                 |     | 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                           |       | [(TCV_Time < 27000) OR (TCV_Time >= 33000)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                 | (F) | 3.       |
| 9                           |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                 |     |          |
| 10                          |       | [(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>   |       | <ol style="list-style-type: none"> <li>1. To attempt a dual mode call.</li> <li>2. The expected DISCONNECT message received.</li> <li>3. Fail, if the T323 timer value is either greater than or equal to 33 seconds, or less than 27 seconds.</li> <li>4. Pass, if the timeout value of the T323 timer is OK.</li> </ol>                                                                                                                                                                                                                                             |                                                 |     |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                           |   |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_4_5_6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                           |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                           |   |          |
| <b>Purpose:</b>             |       | 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.<br>2. To verify that upon receipt of the MODIFY COMPLETE message the MS start sending channel information according to the new call mode and enters the "active" state.                                                                                                                                                                                                          |                                                           |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                           |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                                      | V | 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_NECl_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, 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                           |       | +local_2ndTCH(TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitDef, TSPX_TscDef, TCV_ChModb, C_arfcn_tchA, C_arfcn_tchAd, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                           |                                                           |   |          |
| 6                           |       | +PreModifySetup(TSPX_TmSlitDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                           |   | 1.       |
| 7                           |       | +local_continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                           |   |          |
|                             |       | <b>local_continue</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                           |   |          |
| 8                           |       | +assign                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                           |   |          |
| 9                           |       | +CCstatuschk_05(C_U26, TCV_TI, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                           |   | 2.       |
| 10                          |       | (TCV_Res := OC_RcsdPresent(TCV_Modify))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                           |   |          |
| 11                          |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                           |   |          |
| 12                          |       | L!DL_DatRqModifyCom<br>(DL_DatRqModifyCom.msg.rcsd := TCV_Modify.rcsd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ModifyCmpSnd(TCV_chTch, ModifyComp_02(TCV_TI, TCV_Bcap2)) |   |          |
| 13                          |       | +localtree1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                           |   |          |
| 14                          |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                           |   |          |
| 15                          |       | L!DL_DatRqModifyCom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ModifyCmpSnd(TCV_chTch, ModifyComp_03(TCV_TI, TCV_Bcap2)) |   |          |
| 16                          |       | +localtree1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                           |   |          |
|                             |       | <b>localtree1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                           |   |          |
| 17                          |       | +CCstatuschk_05(C_U10, TCV_TI, TCV_chTch1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                           |   | 3.       |
| 18                          |       | +PostMainLinkRel(TCV_chTch1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                           |   |          |
|                             |       | <b>assign</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                           |   |          |
| 19                          |       | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                           |   |          |
| 20                          |       | (TCV_AssCmd := AsgnCmd_nfh(TCV_chtype, TCV_slit2, TSPX_TscDef, 7, C_arfcn_tchA, CellChDes_omit, TCV_ChModb, StartingTm_omit, CphMod_omit))                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                           |   |          |
| 21                          |       | +AssCh_complete(TCV_chTch, TCV_chTch1,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                           |   |          |

|                           |                                                                                                                                                                                                             |                                                                                                  |  |  |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--|--|
| 22                        | TCV_AssCmd)                                                                                                                                                                                                 |                                                                                                  |  |  |
| 23                        | [TSPC_DCS]                                                                                                                                                                                                  |                                                                                                  |  |  |
| 24                        | (TCV_AssCmd := AsgnCmd_nfh(TCV_ctype,<br>TCV_slt2, TSPX_TscDef, 3, C_arfcn_tchAd,<br>CellChDes_omit, TCV_ChModb, StartingTm_omit,<br>CphMod_omit))<br>+AssCh_complete(TCV_chTch, TCV_chTch1,<br>TCV_AssCmd) |                                                                                                  |  |  |
| 25                        | <b>local_2ndTCH(sub:BITSTRING;<br/>acttype:BITSTRING; slot:SN; tsc:TSC;<br/>chmod:CHMOD; arfcng, arfcnd: INTEGER; ta:TA;<br/>babr, cch_con, bpm:B_3)</b>                                                    |                                                                                                  |  |  |
| 26                        | (TCV_slt2 := INT_TO_BIT(((1+<br>BIT_TO_INT(slot))MOD 8),3))                                                                                                                                                 |                                                                                                  |  |  |
| 27                        | [TCV_ChRate = C_Full]<br>+FullRateCh_A_2(acttype, TCV_slt2, tsc, chmod,<br>FreqTCH(arfcng), FreqTCH(arfcnd), ta, babr,<br>cch_con, bpm)                                                                     |                                                                                                  |  |  |
| 28                        | [TCV_ChRate = C_Half]                                                                                                                                                                                       |                                                                                                  |  |  |
| 29                        | +HalfRateCh_A_2(sub, acttype, TCV_slt2, tsc,<br>chmod, FreqTCH(arfcng), FreqTCH(arfcnd), ta,<br>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 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                        |     |          |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_4_5_7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                        |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                        |     |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                        |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                        |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CRef                                                                                                                                                                                                                                   | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                        |     |          |
| 2                           |       | +BasicServiceMO(TSPX_MO_DualModSvc,<br>TSPX_MO_DualModRate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                        |     |          |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                                                                                                                                                                                                                        |     |          |
| 4                           |       | +CCConfigTCH_nociph(TSPX_TCHHSubDef,<br>C_Ass, TSPX_TmSlitDef, TSPX_TscDef,<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3, TCV_ChMod.mode, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                        |     |          |
| 5                           |       | +PreModifySetup(TSPX_TmSlitDef,<br>TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                        |     | 1.       |
| 6                           | body  | +FullRateCh_A_2(C_Rcv, TSPX_TmSlitC,<br>TSPX_TscC, ChMod_speech,<br>FreqTCH(C_arfcn_tchA),<br>FreqTCH(C_arfcn_tchAd), TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                        |     | 2.       |
| 7                           |       | +local_sendHoCMD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                        |     |          |
| 8                           |       | (TCV_Cnt := 0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                        |     |          |
| 9                           |       | REPEAT local_Hoacc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                        |     |          |
| 10                          |       | UNTIL [TCV_Cnt = 4]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                        |     |          |
| 10                          |       | L?DL_DatInHofl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | HndOvFIRcv(TCV_ch<br>Tch, HandOvFail_01)                                                                                                                                                                                               | (P) | 5.       |
| 11                          |       | +CCstatuschk_05(C_U26,<br>TCV_TI, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                        |     | 6.       |
| 12                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                        |     |          |
| 13                          |       | <b>local_Hoacc</b><br>L?DL_RaInHoacc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | HndOvAccRcv(TCV_c<br>hTch1,<br>HandOverAcc_02(TS<br>PX_HoRefA))                                                                                                                                                                        |     | 4.       |
| 14                          |       | (TCV_Cnt := TCV_Cnt +1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                        |     |          |
| 15                          |       | <b>local_sendHoCMD</b><br>(TCV_Tchtype := '00001'B)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                        |     |          |
| 16                          |       | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                        |     |          |
| 17                          |       | LIDL_DatRqHoCmd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | HndOvSnd(TCV_chT<br>ch,<br>HandOverCmd(TCV_<br>Tchtype,<br>TSPX_TmSlitC,<br>TSPX_TscC,<br>C_arfcnA,<br>C_arfcn_tchA,<br>TSPX_HoRefA, 8,<br>C_not_report_otd,<br>C_synchronised,<br>RelTmdDif_omit,<br>TimingAdv_omit,<br>CphMod_omit)) |     | 3.       |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                 |                                                                                                                                                                                                                                         |    |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--|
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | [TSPC_DCS]      |                                                                                                                                                                                                                                         |    |  |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | LIDL_DatRqHoCmd | HndOvSnd(TCV_chT<br>ch,<br>HandOverCmd(TCV_<br>Tchtype,<br>TSPX_TmSlitC,<br>TSPX_TscC,<br>C_arfcnAd,<br>C_arfcn_tchAd,<br>TSPX_HoRefA, 8,<br>C_not_report_otd,<br>C_synchronised,<br>RelTmdDif_omit,<br>TimingAdv_omit,<br>CphMod_omit) | 3. |  |
| <b>Detailed Comments:</b> <ol style="list-style-type: none"> <li>1. To attempt a dual mode call.</li> <li>2. To setup a receiving only TCH/F for handover.</li> <li>3. To handover to the channel which does not respond.</li> <li>4. To check that the MS sends HANDOVER ACCESS messages on the new channel.</li> <li>5. The expected HANDOVER FAILURE message received.</li> <li>6. To check whether the MS is still in the state U26.</li> </ol> |  |                 |                                                                                                                                                                                                                                         |    |  |



| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                            |     |          |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_1_4_5_8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                            |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                            |     |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                            |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CRef                                                       | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            |     |          |
| 2                           |       | +BasicServiceMO(TSPX_MO_DualModSvc,<br>TSPX_MO_DualModRate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                            |     |          |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_7, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                                            |     |          |
| 4                           |       | +CCConfigTCH(TSPX_TCHHSubDef, C_Ass,<br>TSPX_TmSlitDef, TSPX_TscDef, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>TCV_ChMod.mode, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                                             |                                                            |     |          |
| 5                           |       | +PreModifySetup(TSPX_TmSlitDef,<br>TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                            |     | 1.       |
| 6                           | body  | L!DL_DatRqUndefCC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | UndefCC(TCV_chTch<br>,<br>UndefCC_02(TCV_TI<br>)<br>)      |     | 2.       |
| 7                           |       | L?DL_DatInCcst                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CCStRcv(TCV_chTch<br>,<br>CCStatus_08(TCV_TI<br>0, C_U26)) | (P) | 3.       |
| 8                           |       | +CCstatuschk_05(C_U26, TCV_TI,<br>TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                            |     | 4.       |
| 9                           |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                            |     |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To attempt a dual mode call.</li> <li>2. To send a message which message type is not defined for CC.</li> <li>3. Received expected CC STATUS message with state U26.</li> <li>4. To check whether the MS is still in the state U26 and assign the verdict.</li> </ol>                                                                                                                                                                                                                                                                                                  |                                                            |     |          |

### Test Case Dynamic Behaviour

**Test Case Name:** TC\_26\_8\_1\_4\_5\_9  
**Group:** GSM\_L3\_MS\_v4180/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".  
**Default:** OtherEventsFail

| Nr                        | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                        | V  | 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_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(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                         |       | +PreModifySetup(TSPX_TmSlitDef, TSPX_TscDef, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                             | 1. |          |
| 6                         | body  | +CCstatuschk_05(C_U26, TCV_TI, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                             |    |          |
| 7                         |       | L!DL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | RelComSnd(TCV_chTch, ReleaseCmp_08(TCV_TI)) | 2. |          |
| 8                         |       | +CheckTlInStateU0(TRUE, TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                             |    |          |
| 9                         |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                             |    |          |
| <b>Detailed Comments:</b> |       | 1. To attempt a dual mode call and initiate incall modification.<br>2. To send RELEASE COMPLETE message.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                             |    |          |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |   |                         |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---|-------------------------|
| <b>Test Case Name:</b>      |       | TC_26_8_2_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |   |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/CC/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                   |   |                         |
| <b>Purpose:</b>             |       | The purpose of this test is to verify that the MS can correctly perform a call re-establishment procedure.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                   |   |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |   |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CRef                              | V | Comments                |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                   |   |                         |
| 2                           |       | +BasicServiceMO(TSPX_MOBscSvcA, TSPX_MOChRateA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |   |                         |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, 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) |                                   |   | 1.                      |
| 4                           |       | (TCV_ch1 := OC_SubchOfSdcch4(TSPX_SDCCH4SubDef, C_CellB), TCV_sacch_B := OC_SubchOfSacch4(TSPX_SDCCH4SubDef, C_CellB))                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                   |   |                         |
| 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                           |       | +StartCellB_1(C_E_suitable, 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)                                                                                                                                                                                                                                                                                                                                                                               |                                   |   |                         |
| 7                           |       | +CCConfigTCH_B(TSPX_TCHHSubDef, C_Ass, TSPX_TmSlitC, 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)                                                                                                                                                                                                                                                                                                                                                                               |                                   |   |                         |
| 8                           |       | +ltree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                   |   |                         |
|                             |       | <b>ltree</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                   |   |                         |
| 9                           |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                   |   |                         |
| 10                          |       | +CCEstablishMO_SDCCH4(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                   |   |                         |
| 11                          |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                   |   | To match ChReq retrans. |
| 12                          |       | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CMSerReq(CMServic<br>eReq_04)     |   |                         |
| 13                          |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                   |   | Restore Normal default  |
| 14                          |       | +Authentication(TCV_ch, TSPX_CKSNDf, TSPX_RANDDef)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                   |   |                         |
| 15                          |       | +Cipherring_on(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                   |   |                         |
| 16                          |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                   |   |                         |
|                             |       | <b>localtree</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                   |   |                         |
| 17                          |       | +RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                   |   |                         |
| 18                          |       | LIDL_DatRqCallProc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CallProc(TCV_ch,<br>TCV_CallProc) |   |                         |
| 19                          |       | +AssCmdGen(TCV_cellid, TCV_ChRate, TSPX_TmSlitDef, TSPX_TscDef,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |   |                         |

|                           |      |                                                                                                                                            |                                                                                                                                                     |     |                         |
|---------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| 20                        |      | TSPX_TCHHSubDef)                                                                                                                           |                                                                                                                                                     |     |                         |
| 21                        |      | +AssCh_complete(TCV_ch, TCV_chTch,<br>TCV_AssCmd)                                                                                          |                                                                                                                                                     |     |                         |
| 22                        |      | L!DL_DatRqAlert                                                                                                                            | AlertSnd(TCV_chTch,<br>Alerting_01(TCV_TI))                                                                                                         |     |                         |
| 23                        |      | L!DL_DatRqConn                                                                                                                             | ConnSnd(TCV_chTch<br>,<br>Connect_02(TCV_TI))                                                                                                       |     |                         |
| 24                        | body | L?DL_DatInConnAck                                                                                                                          | ConnAckRcv(Connect<br>Ack_02(TCV_TI0))                                                                                                              |     | Cell A still exists.    |
| 25                        |      | +Switchcell_A2B                                                                                                                            |                                                                                                                                                     |     |                         |
| 26                        |      | START T_dly(C_T_Wait)                                                                                                                      |                                                                                                                                                     |     |                         |
| 27                        |      | ?TIMEOUT T_dly                                                                                                                             |                                                                                                                                                     |     |                         |
| 28                        |      | +localtree1                                                                                                                                |                                                                                                                                                     |     |                         |
| 29                        |      | <b>localtree1</b><br>(TCV_Null := OM_Deactivate(TCV_chTch,<br>TCV_sacchTch), TCV_Null :=<br>OM_CphMd(TCV_chTch, CphMod_02,<br>TCV_CphKey)) |                                                                                                                                                     |     |                         |
| 30                        |      | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                           | ChReq(ChRequest_1<br>0)                                                                                                                             | (P) | 1.                      |
| 31                        |      | ACTIVATE(OtherEventsFail_02)                                                                                                               |                                                                                                                                                     |     | To match ChReq retrans. |
| 32                        |      | L!DL_UdatRqImmss                                                                                                                           | ImmAss(C_AGCH_B<br>_1,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(0))) |     |                         |
| 33                        |      | L?DL_EstInCmreRq                                                                                                                           | CmreReq_02(MiTmsi<br>_01,<br>LocArealdiei(C_MCC<br>_1, C_PLMN_1,<br>C_LAC_1))                                                                       |     |                         |
| 34                        |      | ACTIVATE(OtherEventsFail)                                                                                                                  |                                                                                                                                                     |     | Restore Normal default  |
| 35                        |      | +Cipherring_on(TCV_ch1)                                                                                                                    |                                                                                                                                                     |     |                         |
| 36                        |      | +AssCmdGen(TCV_cellid,<br>TCV_ChRate, TSPX_TmSltDef,<br>TSPX_TscDef, TSPX_TCHHSubDef)                                                      |                                                                                                                                                     |     |                         |
| 37                        |      | +AssCh_complete(TCV_ch1,<br>TCV_chTch1, TCV_AssCmd)                                                                                        |                                                                                                                                                     |     |                         |
| 38                        |      | (TCV_Res :=<br>OO_TCHThroConnCHK())                                                                                                        |                                                                                                                                                     |     |                         |
| 39                        |      | [NOT TCV_Res]                                                                                                                              |                                                                                                                                                     | (F) | 2.                      |
| 40                        |      | +PostMainLinkRel(TCV_chTch1<br>)                                                                                                           |                                                                                                                                                     |     |                         |
| 41                        |      | [TCV_Res]                                                                                                                                  |                                                                                                                                                     | (P) |                         |
| 42                        |      | L!DL_DatRqDisc                                                                                                                             | DiscSnd(TCV_chTch<br>1, DisconnS(TCV_TI,<br>Cause_01,<br>ProgInd_omit,<br>UuInfo_omit))                                                             |     |                         |
| 43                        |      | L?DL_DatInRel                                                                                                                              | ReleaseRcv(Release<br>_10(TCV_TI0))                                                                                                                 |     |                         |
| 44                        |      | L!DL_DatRqRelCmp                                                                                                                           | RelComSnd(TCV_ch<br>Tch1,<br>ReleaseCmp_08(TCV<br>_TI))                                                                                             |     |                         |
| 45                        |      | +PostMainLinkRel(TCV_c<br>hTch1)                                                                                                           |                                                                                                                                                     |     |                         |
| <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>               |       | GSM_L3_MS_v4180/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>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                          |   |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CRef                                     | V | 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_NECL_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, 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_noReestablishment, 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                           |       | +CCEstablishMO_SDCCH4(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_CKSNDf, TSPX_RANDDef)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          |   |                         |
| 11                          |       | +Cipherring_on(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                          |   |                         |
| 12                          |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                          |   |                         |
| 13                          |       | <b>localtree</b><br>+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                          |   |                         |
| 14                          |       | L!DL_DatRqCallProc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CallProc(TCV_ch, TCV_CallProc)           |   |                         |
| 15                          |       | +AssCmdGen(TCV_cellid, TCV_ChRate, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                          |   |                         |
| 16                          |       | +AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                          |   |                         |
| 17                          |       | L!DL_DatRqAlert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | AlertSnd(TCV_chTch, Alerting_01(TCV_TI)) |   |                         |
| 18                          |       | L!DL_DatRqConn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ConnSnd(TCV_chTch, Connect_02(TCV_TI))   |   |                         |
| 19                          |       | L?DL_DatInConnAck                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ConnAckRcv(ConnectAck_02(TCV_TI0))       |   |                         |
| 20                          |       | (TCV_Null := OM_Deactivate(TCV_chTch, TCV_sacchTch), TCV_Null := OM_CphMd(TCV_chTch, CphMod_02, TCV_CphKey))                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                          |   |                         |
| 21                          |       | START T_dly(30000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          |   |                         |
| 22                          |       | L?DL_RaInChRq CANCEL T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ChReq(ChRequest_02)                      | F | 2.                      |
| 23                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                          | P | 3.                      |

**Detailed Comments:**

1. Default parameters, call reestablishment not allowed.
2. Re-establishment is attempted, fail.
3. No re-establishment attempting, pass.

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                             |   |                         |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---|-------------------------|
| <b>Test Case Name:</b>      |       | TC_26_8_2_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                             |   |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                             |   |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                        | V | 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) |                                             |   | 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(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                             |   |                         |
| 7                           |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                             |   | To match ChReq retrans. |
| 8                           |       | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CMSerReq(CMServic<br>eReq_04)               |   |                         |
| 9                           |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                             |   | Restore Normal default  |
| 10                          |       | +Authentication(TCV_ch, TSPX_CKSNDf, TSPX_RANDDef)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                             |   |                         |
| 11                          |       | +Cipherring_on(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                             |   |                         |
| 12                          |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                             |   |                         |
| 13                          |       | <b>localtree</b><br>+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                             |   |                         |
| 14                          |       | LIDL_DatRqCallProc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CallProc(TCV_ch,<br>TCV_CallProc)           |   |                         |
| 15                          |       | +AssCmdGen(TCV_cellid, TCV_ChRate, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                             |   |                         |
| 16                          |       | +AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |   |                         |
| 17                          |       | LIDL_DatRqAlert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | AlertSnd(TCV_chTch,<br>Alerting_01(TCV_TI)) |   |                         |
| 18                          | body  | (TCV_Null := OM_Deactivate(TCV_chTch, TCV_sacchTch), TCV_Null := OM_CphMd(TCV_chTch, CphMod_02, TCV_CphKey))                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                             |   |                         |
| 19                          |       | START T_dly(30000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                             |   |                         |
| 20                          |       | L?DL_RacInChRq CANCEL T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ChReq(ChRequest_0<br>2)                     | F | 2.                      |
| 21                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             | P | 3.                      |
| <b>Detailed Comments:</b>   |       | 1. Default parameters, reestablishment allowed.<br>2. Re-establishment is attempted, fail.<br>3. No re-establishment attempting, pass.                                                                                                                                                                                                                                                                                                                                                                                                                              |                                             |   |                         |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                 |     |          |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_26_8_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                 |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                 |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CRef                                                                            | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                 |     |          |
| 2                           |       | +BasicServiceMT(TSPX_MTBscSvcF,<br>TSPX_MTChRateF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                 |     |          |
| 3                           |       | (TCV_Setup_mt.uu := UuInfo, TCV_Setup_mt.sig<br>:= Signal_01)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                 |     |          |
| 4                           |       | +IdleUpdated(C_E_default, C_CellA,<br>C_SCH_A, C_BCCH_A_1, C_Immass, C_S0,<br>C_SlotNU, C_SlotNU, C_SlotNU, C_BCC,<br>C_TxInt_5, C_Max_1, C_NECl_0, C_ATT_0,<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3, C_T3212_0, C_ci_cellA,<br>C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01,<br>CellChDes_Omit, CellChDes_Omit,<br>C_CellReselectHys12, C_MaxPwrLvlG,<br>C_MaxPwrLvlD, BcchFreqLst_45,<br>BcchFreqLst_02, BcchFreqLst_03,<br>BcchFreqLst_04, C_Restablishment, C_BCC,<br>C_NCC, C_Start_Tmsi,<br>TSPX_SDCCH4SubDef, TSPX_CKSNDf,<br>TSPX_RANDDef, C_arfcnA, C_arfcnAd,<br>TSPX_IMSI, C_Test_nfh, C_NCCP_2) |                                                                                 |     |          |
| 5                           |       | +CCConfigTCH(TSPX_TCHHSubDef, C_Ass,<br>TSPX_TmSlitDef, TSPX_TscDef,<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3, TCV_ChMod.mode,<br>FreqTCH_omit, FreqTCH_omit,<br>C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                 |     |          |
| 6                           |       | +CCEstablishMT_SDCCH4(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                 |     |          |
| 7                           |       | +Authentication(TCV_ch,<br>TSPX_CKSNDf, TSPX_RANDDef)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                 |     |          |
| 8                           |       | +Cipherring_on(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                 |     |          |
| 9                           | body  | LIDL_DatRqSetup                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SetupSnd(TCV_ch,<br>TCV_Setup_mt)                                               |     |          |
| 10                          |       | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                 |     |          |
| 17                          |       | <b>localtree</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                 |     |          |
| 18                          |       | +CCAssignTCH(TSPX_TmSlitDef, TSPX_TscDef)<br>LIDL_DatRqConnAck                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ConnAckSnd(TCV_ch<br>Tch,<br>ConnectAck_01(TI_02))                              |     |          |
| 19                          |       | START T_dly(30000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                 |     |          |
| 20                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                 |     |          |
| 21                          |       | LIDL_DatRqDisc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | DiscSnd(TCV_chTch,<br>DisconnS(TI_02,<br>Cause_01,<br>ProgInd_omit,<br>UuInfo)) |     |          |
| 22                          |       | L?DL_DatInRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ReleaseRcv(Release_10(TI_01))                                                   | (P) | 2.       |
| 23                          |       | LIDL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | RelComSnd(TCV_ch<br>Tch,<br>ReleaseCmp_08(TI_02))                               |     |          |



|                           |  |                                                                                                                                                                                                                                                                                          |  |  |  |
|---------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| 24                        |  | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                              |  |  |  |
| <b>Detailed Comments:</b> |  | <ol style="list-style-type: none"><li>1. The MS responds to the SETUP message with user-user information IE correctly.</li><li>2. The MS responds to the DISCONNECT message with user-user information IE correctly.</li></ol> |  |  |  |

Test Group StructureProc

| <b>Test Case Dynamic Behaviour</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b>             | TC_26_9_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Group:</b>                      | GSM_L3_MS_v4180/StructureProc/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purpose:</b>                    | <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.)</p> <p>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.</p> <p>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.</p> <p>These test purposes are tested for all rates supported by the MS (full rate/half rate).</p> |
| <b>Default:</b>                    | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CRef | V | Comments |
|----|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| 1  | body  | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
| 2  |       | [TSPC_Serv_TS11]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
| 3  |       | +BasicServiceMO(C_Telephony, C_Full)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| 4  |       | +local_testfullrate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   | 1.       |
| 5  |       | [TSPC_DualRate]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   |          |
| 6  |       | +BasicServiceMO(C_Telephony, C_Half)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| 7  |       | +local_testhalfrate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   | 2.       |
| 8  |       | [NOT TSPC_DualRate]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
| 9  |       | [TSPC_Serv_TS62]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   | TS62     |
| 10 |       | +BasicServiceMO(C_AutoFax, C_Full)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
| 11 |       | +local_testfullrate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   | 3.       |
| 12 |       | [C_Yes]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   | I        |
| 13 |       | <b>local_testfullrate</b><br>+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_NECl_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, 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, |      |   |          |

|    |                                                                                                                                                                                                                                   |                                                                                                                                               |     |                         |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| 14 | C_Test_nfh, C_NCCP_2)<br>+FullRateCh_A_1(C_Ass, TSPX_TmSltDef,<br>TSPX_TscDef, ChMod_sign, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd,<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3)                        |                                                                                                                                               |     |                         |
| 15 | +local_initcall                                                                                                                                                                                                                   |                                                                                                                                               |     |                         |
| 16 | <b>local_testhalfrate</b><br>+HalfRateCh_A_1(TSPX_TCHHSubDef, C_Ass,<br>TSPX_TmSltDef, TSPX_TscDef, ChMod_speech,<br>FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA,<br>C_arfcn_tchAd, TimingAdv(0), C_BABR_0,<br>C_cch_1Comb, C_BPM_3) |                                                                                                                                               |     | 7.                      |
| 17 | (TCV_Null := OM_ChMdModi(TCV_chTch,<br>TCV_ChMod))                                                                                                                                                                                |                                                                                                                                               |     |                         |
| 18 | +local_initcall                                                                                                                                                                                                                   |                                                                                                                                               |     |                         |
| 19 | <b>local_initcall</b><br>(TCV_Null := OO_DialCalledNum())                                                                                                                                                                         |                                                                                                                                               |     | 4.                      |
| 20 | [TSPC_CalledNumDisp]                                                                                                                                                                                                              |                                                                                                                                               |     |                         |
| 21 | (TCV_Res := OO_CalledNumCHK())                                                                                                                                                                                                    |                                                                                                                                               |     | 5.                      |
| 22 | [NOT TCV_Res]                                                                                                                                                                                                                     |                                                                                                                                               | (F) |                         |
| 23 | [TCV_Res]                                                                                                                                                                                                                         |                                                                                                                                               | (P) |                         |
| 24 | +InitCall(TCV_Service)                                                                                                                                                                                                            |                                                                                                                                               |     | 6.                      |
| 25 | +localtree                                                                                                                                                                                                                        |                                                                                                                                               |     |                         |
| 26 | [NOT TSPC_CalledNumDisp]                                                                                                                                                                                                          |                                                                                                                                               |     |                         |
| 27 | +InitCall(TCV_Service)                                                                                                                                                                                                            |                                                                                                                                               |     |                         |
| 28 | +localtree                                                                                                                                                                                                                        |                                                                                                                                               |     |                         |
| 29 | <b>localtree</b><br>L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                              | ChReq(ChRequest_0<br>4)                                                                                                                       | (P) |                         |
| 30 | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                      |                                                                                                                                               |     | To match ChReq retrans. |
| 31 | L!DL_UdatRqImmass                                                                                                                                                                                                                 | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(0))) |     |                         |
| 32 | L?DL_EstInCmsRq                                                                                                                                                                                                                   | CMSerReq(CMServic<br>eReq_04)                                                                                                                 |     |                         |
| 33 | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                         |                                                                                                                                               |     | Restore Normal default  |
| 34 | L!DL_DatRqAuthRq                                                                                                                                                                                                                  | AuthReq(TCV_ch,<br>AuthRequest(TSPX_<br>CKSNA,<br>TSPX_RANDA))                                                                                |     |                         |
| 35 | L?DL_DatInAuthRes(TCV_Sres:=DL_DatI<br>nAuthRes.msg.sres)                                                                                                                                                                         | AuthRes(AuthRespon<br>se)                                                                                                                     |     |                         |
| 36 | (TCV_Res :=<br>OC_ChkSRES(TCV_Sres, TSPX_Ki,<br>TSPX_RANDA))                                                                                                                                                                      |                                                                                                                                               |     |                         |
| 37 | [NOT TCV_Res]                                                                                                                                                                                                                     |                                                                                                                                               | (F) |                         |
| 38 | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                          |                                                                                                                                               |     |                         |
| 39 | [TCV_Res]                                                                                                                                                                                                                         |                                                                                                                                               | (P) |                         |
| 40 | +localtree1                                                                                                                                                                                                                       |                                                                                                                                               |     |                         |
| 41 | <b>localtree1</b><br>+Cipherring_on(TCV_ch)                                                                                                                                                                                       |                                                                                                                                               |     |                         |
| 42 | +RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup,<br>TCV_Ecall)                                                                                                                                                                         |                                                                                                                                               |     |                         |
| 43 | L!DL_DatRqCallProc                                                                                                                                                                                                                | CallProc(TCV_ch,<br>TCV_CallProc)                                                                                                             | (P) |                         |
| 44 | +AssCmdGen(TCV_cellid, TCV_ChRate,<br>TSPX_TmSltDef, TSPX_TscDef,<br>TSPX_TCHHSubDef)                                                                                                                                             |                                                                                                                                               |     |                         |
| 45 | +AssCh_complete(TCV_ch,TCV_chTch,TCV<br>_AssCmd)                                                                                                                                                                                  |                                                                                                                                               |     | 8.                      |

|    |                                  |                                                                                       |     |
|----|----------------------------------|---------------------------------------------------------------------------------------|-----|
| 46 | +localtree2                      |                                                                                       |     |
|    | <b>localtree2</b>                |                                                                                       |     |
| 47 | L!DL_DatRqAlert                  | AlertSnd(TCV_chTch,<br>Alerting_01(TCV_TI))                                           |     |
| 48 | [TSPC_AlertInd]                  |                                                                                       |     |
| 49 | (TCV_Res := OO_AltIndCHK())      |                                                                                       |     |
| 50 | [NOT TCV_Res]                    |                                                                                       | (F) |
| 51 | +PostMainLinkRel(TCV_chTch)      |                                                                                       |     |
| 52 | [TCV_Res]                        |                                                                                       |     |
| 53 | +localtree3                      |                                                                                       |     |
| 54 | [NOT TSPC_AlertInd]              |                                                                                       |     |
| 55 | +localtree3                      |                                                                                       |     |
|    | <b>localtree3</b>                |                                                                                       |     |
| 56 | L!DL_DatRqConn                   | ConnSnd(TCV_chTch<br>,<br>Connect_02(TCV_TI))                                         |     |
| 57 | L?DL_DatInConnAck                | ConnAckRcv(Connect<br>Ack_02(TCV_TI0))                                                | (P) |
| 58 | (TCV_Res := OO_TCHThroConnCHK()) |                                                                                       |     |
| 59 | [NOT TCV_Res]                    |                                                                                       | (F) |
| 60 | +PostMainLinkRel(TCV_chTch)      |                                                                                       |     |
| 61 | [TCV_Res]                        |                                                                                       | (P) |
| 62 | L!DL_DatRqDisc                   | DiscSnd(TCV_chTch,<br>DisconnS(TCV_TI,<br>Cause_01,<br>ProgInd_omit,<br>UuInfo_omit)) |     |
| 63 | L?DL_DatInRel                    | ReleaseRcv(Release<br>_10(TCV_TI0))                                                   | (P) |
| 64 | L!DL_DatRqRelCmp                 | RelComSnd(TCV_ch<br>Tch,<br>ReleaseCmp_08(TCV<br>_TI))                                |     |
| 65 | +PostMainLinkRel(TCV_chTch)      |                                                                                       |     |

**Detailed Comments:**

1. To perform the test on full rate telephony service.
2. To perform the test on half rate telephony.
3. To perform the test on TS62 service.
4. To enter the called party number.
5. To check whether the MS displays the called party number correctly.
6. To initiate the call.
7. To setup the previous full rate traffic channel into half rate traffic channel.
8. Early assignment.

### Test Case Dynamic Behaviour

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_26_9_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Group:</b>          | GSM_L3_MS_v4180/StructureProc/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Purpose:</b>        | <p>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.</p> <p>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.</p> <p>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.</p> <p>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.)</p> <p>These test purposes are tested for all rates supported by the MS (full rate/half rate).</p> |
| <b>Default:</b>        | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CRef | V | Comments |
|----|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| 1  |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   |          |
| 2  | body  | [TSPC_Serv_TS11]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   |          |
| 3  |       | +BasicServiceMO(C_Telephony, C_Full)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |   |          |
| 4  |       | +local_testfullrate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   | 1.       |
| 5  |       | [TSPC_DualRate]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 6  |       | +BasicServiceMO(C_Telephony, C_Half)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |   |          |
| 7  |       | +local_testhalfrate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   | 2.       |
| 8  |       | [NOT TSPC_DualRate]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |          |
| 9  |       | [TSPC_Serv_TS62]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   | TS62     |
| 10 |       | +BasicServiceMO(C_AutoFax, C_Full)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   |          |
| 11 |       | +local_testfullrate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   | 3.       |
| 12 |       | [C_Yes]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      | I |          |
| 13 |       | <b>local_testfullrate</b><br>+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_NECL_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, 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) |      |   |          |
| 14 |       | +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)                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   |          |
| 15 |       | +local_initcall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 16 |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
| 17 |       | <b>local_testhalfrate</b><br>+HalfRateCh_A_1(TSPX_TCHHSubDef, C_Ass,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |   | 7.       |

|    |                                                                                                                                                                               |                                                                                                                                               |                         |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 18 | TSPX_TmSlitDef, TSPX_TscDef, ChMod_speech,<br>FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA,<br>C_arfcn_tchAd, TimingAdv(0), C_BABR_0,<br>C_cch_1Comb, C_BPM_3)<br>+local_initcall |                                                                                                                                               |                         |
|    | <b>local_initcall</b>                                                                                                                                                         |                                                                                                                                               |                         |
| 19 | (TCV_Null := OO_DialCalledNum())                                                                                                                                              |                                                                                                                                               | 4.                      |
| 20 | [TSPC_CalledNumDisp]                                                                                                                                                          |                                                                                                                                               |                         |
| 21 | (TCV_Res := OO_CalledNumCHK())                                                                                                                                                |                                                                                                                                               | 5.                      |
| 22 | [NOT TCV_Res]                                                                                                                                                                 | (F)                                                                                                                                           |                         |
| 23 | [TCV_Res]                                                                                                                                                                     | (P)                                                                                                                                           |                         |
| 24 | +InitCall(TCV_Service)                                                                                                                                                        |                                                                                                                                               | 6.                      |
| 25 | +localtree                                                                                                                                                                    |                                                                                                                                               |                         |
| 26 | [NOT TSPC_CalledNumDisp]                                                                                                                                                      |                                                                                                                                               |                         |
| 27 | +InitCall(TCV_Service)                                                                                                                                                        |                                                                                                                                               |                         |
| 28 | +localtree                                                                                                                                                                    |                                                                                                                                               |                         |
|    | <b>localtree</b>                                                                                                                                                              |                                                                                                                                               |                         |
| 29 | L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)                                                                                           | ChReq(ChRequest_0<br>4)                                                                                                                       | (P)                     |
| 30 | ACTIVATE(OtherEventsFail_02)                                                                                                                                                  |                                                                                                                                               | To match ChReq retrans. |
| 31 | LIDL_UdatRqImmss                                                                                                                                                              | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(0))) |                         |
| 32 | L?DL_EstInCmsRq                                                                                                                                                               | CMSerReq(CMServic<br>eReq_04)                                                                                                                 |                         |
| 33 | ACTIVATE(OtherEventsFail)                                                                                                                                                     |                                                                                                                                               | Restore Normal default  |
| 34 | LIDL_DatRqAuthRq                                                                                                                                                              | AuthReq(TCV_ch,<br>AuthRequest(TSPX_<br>CKSNA,<br>TSPX_RANDA))                                                                                |                         |
| 35 | L?DL_DatInAuthRes (TCV_Sres :=<br>DL_DatInAuthRes.msg.sres)                                                                                                                   | AuthRes(AuthRespon<br>se)                                                                                                                     |                         |
| 36 | (TCV_Res :=<br>OC_ChkSRES(TCV_Sres, TSPX_Ki,<br>TSPX_RANDA))                                                                                                                  |                                                                                                                                               |                         |
| 37 | [NOT TCV_Res]                                                                                                                                                                 |                                                                                                                                               | (F)                     |
| 38 | +PostMainLinkRel(TCV_ch)                                                                                                                                                      |                                                                                                                                               |                         |
| 39 | [TCV_Res]                                                                                                                                                                     |                                                                                                                                               |                         |
| 40 | +localtree1                                                                                                                                                                   |                                                                                                                                               |                         |
|    | <b>localtree1</b>                                                                                                                                                             |                                                                                                                                               |                         |
| 41 | +Cipherring_on(TCV_ch)                                                                                                                                                        |                                                                                                                                               |                         |
| 42 | +RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup,<br>TCV_Ecall)                                                                                                                     |                                                                                                                                               |                         |
| 43 | LIDL_DatRqCallProc                                                                                                                                                            | CallProc(TCV_ch,<br>TCV_CallProc)                                                                                                             | (P)                     |
| 44 | LIDL_DatRqAlert                                                                                                                                                               | AlertSnd(TCV_ch,<br>Alerting_01(TCV_TI))                                                                                                      |                         |
| 45 | [TSPC_AlertInd]                                                                                                                                                               |                                                                                                                                               |                         |
| 46 | (TCV_Res := OO_AltIndCHK())                                                                                                                                                   |                                                                                                                                               |                         |
| 47 | [NOT TCV_Res]                                                                                                                                                                 |                                                                                                                                               | (F)                     |
| 48 | +PostMainLinkRel(TCV_ch)                                                                                                                                                      |                                                                                                                                               |                         |
| 49 | [TCV_Res]                                                                                                                                                                     |                                                                                                                                               |                         |
| 50 | +localtree2                                                                                                                                                                   |                                                                                                                                               |                         |
| 51 | [NOT TSPC_AlertInd]                                                                                                                                                           |                                                                                                                                               |                         |
| 52 | +localtree2                                                                                                                                                                   |                                                                                                                                               |                         |
|    | <b>localtree2</b>                                                                                                                                                             |                                                                                                                                               |                         |
| 53 | +AssCmdGen(TCV_cellid, TCV_ChRate,<br>TSPX_TmSlitDef, TSPX_TscDef,<br>TSPX_TCHHSubDef)                                                                                        |                                                                                                                                               |                         |
| 54 | +AssCh_complete(TCV_ch, TCV_chTch,                                                                                                                                            |                                                                                                                                               |                         |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                     |                                                                                       |     |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------|-----|--|
| 55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | TCV_AssCmd)<br>+localtree3          |                                                                                       |     |  |
| 56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>localtree3</b><br>L!DL_DatRqConn | ConnSnd(TCV_chTch<br>,<br>Connect_02(TCV_TI))                                         |     |  |
| 57                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | L?DL_DatInConnAck                   | ConnAckRcv(Connect<br>Ack_02(TCV_TI0))                                                | (P) |  |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | (TCV_Res := OO_TCHThroConnCHK())    |                                                                                       |     |  |
| 59                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | [NOT TCV_Res]                       |                                                                                       | (F) |  |
| 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | +PostMainLinkRel(TCV_chTch)         |                                                                                       |     |  |
| 61                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | [TCV_Res]                           |                                                                                       | (P) |  |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | L!DL_DatRqDisc                      | DiscSnd(TCV_chTch,<br>DisconnS(TCV_TI,<br>Cause_01,<br>ProgInd_omit,<br>UuInfo_omit)) |     |  |
| 63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | L?DL_DatInRel                       | ReleaseRcv(Release<br>_10(TCV_TI0))                                                   | (P) |  |
| 64                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | L!DL_DatRqRelCmp                    | RelComSnd(TCV_ch<br>Tch,<br>ReleaseCmp_08(TCV<br>_TI))                                |     |  |
| 65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | +PostMainLinkRel(TCV_chTch)         |                                                                                       |     |  |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                     |                                                                                       |     |  |
| <ol style="list-style-type: none"> <li>1. To perform the test on full rate telephony service.</li> <li>2. To perform the test on half rate telephony.</li> <li>3. To perform the test on TS62 service.</li> <li>4. To enter the called party number.</li> <li>5. To check whether the MS displays the called party number correctly.</li> <li>6. To initiate the call.</li> <li>7. To setup the previous full rate traffic channel into half rate traffic channel.</li> <li>8. Later assignment</li> </ol> |                                     |                                                                                       |     |  |

**Test Case Dynamic Behaviour**

**Test Case Name:** TC\_26\_9\_4  
**Group:** GSM\_L3\_MS\_v4180/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 one or two CONNECT messages (with equal N(SD)) or sending an ALERTING message, steps a) and b) being performed in any permitted interleaving.
- 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.

**Default:** OtherEventsFail

| Nr | Label | Behaviour Description                                                                                                                                         | CRef | V | Comments |
|----|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| 1  |       | START T_guard(300)                                                                                                                                            |      |   |          |
| 2  | body  | [TSPC_Serv_TS11]                                                                                                                                              |      |   |          |
| 3  |       | +BasicServiceMT(C_Telephony, C_Full)                                                                                                                          |      |   |          |
| 4  |       | +local_testfullrate                                                                                                                                           |      |   | 1.       |
| 5  |       | [TSPC_DualRate]                                                                                                                                               |      |   |          |
| 6  |       | +BasicServiceMT(C_Telephony, C_Half)                                                                                                                          |      |   |          |
| 7  |       | +local_testhalfrate                                                                                                                                           |      |   | 2.       |
| 8  |       | [NOT TSPC_DualRate]                                                                                                                                           |      |   |          |
| 9  |       | [TSPC_Serv_TS62]                                                                                                                                              |      |   | TS62     |
| 10 |       | +BasicServiceMT(C_AutoFax, C_Full)                                                                                                                            |      |   |          |
| 11 |       | +local_testfullrate                                                                                                                                           |      |   | 3.       |
| 12 |       | [C_Yes]                                                                                                                                                       |      | I |          |
| 13 |       | <b>local_testfullrate</b><br>+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immact, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, |      |   |          |



|    |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                        |                         |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-------------------------|
|    | C_NECL_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, 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) |                                                                                                                        |                         |
| 14 | +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)                                                                                                                                                                                                                                                           |                                                                                                                        |                         |
| 15 | (TCV_Null := OM_ChMdModi(TCV_chTch, TCV_ChMod))                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                        |                         |
| 16 | +localtree(C_Full)                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                        |                         |
|    | <b>local_testhalfrate</b>                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                        |                         |
| 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)                                                                                                                                                                                                                                       |                                                                                                                        | 4.                      |
| 18 | +localtree(C_Half)                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                        |                         |
|    | <b>localtree(rate:IA5String)</b>                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                        |                         |
| 19 | L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)                                                                                 |                         |
| 20 | L?DL_RaclnChRq (TCV_Rr := DL_RaclnChRq.msg.ecau_rrf, TCV_Fn := DL_RaclnChRq.fn)                                                                                                                                                                                                                                                                                                                                                 | ChReq(ChRequest_17)                                                                                                    |                         |
| 21 | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                        | To match ChReq retrans. |
| 22 | L!DL_UdatRqImm                                                                                                                                                                                                                                                                                                                                                                                                                  | ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0))) |                         |
| 23 | L?DL_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                 | PagingRes(PagingRes_03)                                                                                                |                         |
| 24 | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                        | Restore Normal default  |
| 25 | L!DL_DatRqAuthRq                                                                                                                                                                                                                                                                                                                                                                                                                | AuthReq(TCV_ch, AuthRequest(TSPX_CKSNA, TSPX_RANDA))                                                                   |                         |
| 26 | L?DL_DatInAuthRes(TCV_Sres := DL_DatInAuthRes.msg.sres)                                                                                                                                                                                                                                                                                                                                                                         | AuthRes(AuthResponse)                                                                                                  |                         |
| 27 | (TCV_Res := OC_ChkSRES(TCV_Sres, TSPX_Ki, TSPX_RANDA))                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                        |                         |
| 28 | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                        | (F)                     |
| 29 | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                        |                         |
| 30 | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                        | (P) 5.                  |
| 31 | +localtree1(rate)                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                        |                         |
|    | <b>localtree1(rate:IA5String)</b>                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                        |                         |
| 32 | +Ciphering_on(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                        |                         |
| 33 | L!DL_DatRqSetup                                                                                                                                                                                                                                                                                                                                                                                                                 | SetupSnd(TCV_ch, TCV_Setup_mt)                                                                                         | 6.                      |
| 34 | L?DL_DatInCallCo(TCV_CallCfm := DL_DatInCallCo.msg)                                                                                                                                                                                                                                                                                                                                                                             | CallCfm(CallConfirm_01(TI_01))                                                                                         |                         |
| 35 | +asstrafficch(rate)                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                        | 7.                      |
| 36 | L?DL_DatInConn (TCV_Mt := DL_DatInConn.msg.mt, TCV_Res := TRUE)                                                                                                                                                                                                                                                                                                                                                                 | ConnRcv(Connect_01(TI_01))                                                                                             |                         |
| 37 | +localtree2                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                        |                         |
| 38 | +localtree2                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                        |                         |

|    |                                                                         |                                                        |     |             |
|----|-------------------------------------------------------------------------|--------------------------------------------------------|-----|-------------|
| 39 | <b>localtree2</b><br>L?DL_DatInConn (TCV_Mt1 :=<br>DL_DatInConn.msg.mt) | ConnRcv(Connect_01<br>(TI_01))                         |     |             |
| 40 | [TCV_Res]                                                               |                                                        |     |             |
| 41 | [TCV_Mt <> TCV_Mt1]                                                     |                                                        | (F) |             |
| 42 | +PostMainLinkRel(TCV_chTch)                                             |                                                        |     |             |
| 43 | [TCV_Mt = TCV_Mt1]                                                      |                                                        | (P) |             |
| 44 | +localtree3                                                             |                                                        |     |             |
| 45 | [NOT TCV_Res]                                                           |                                                        |     |             |
| 46 | +localtree3                                                             |                                                        |     |             |
| 47 | L?DL_DatInAlert                                                         | AlertRcv(AlertingInd_01<br>(TI_01))                    |     |             |
| 48 | [TSPC_AlertInd]                                                         |                                                        |     |             |
| 49 | (TCV_Res := OO_AltIndCHK())                                             |                                                        |     |             |
| 50 | [NOT TCV_Res]                                                           |                                                        | (F) | 8.          |
| 51 | +PostMainLinkRel(TCV_chTch)                                             |                                                        |     |             |
| 52 | [TCV_Res]                                                               |                                                        | (P) |             |
| 53 | (TCV_Null := OO_HookOff())                                              |                                                        |     | 9.          |
| 54 | L?DL_DatInConn                                                          | ConnRcv(Connect_01<br>(TI_01))                         |     |             |
| 55 | +localtree3                                                             |                                                        |     |             |
| 56 | [NOT TSPC_AlertInd]                                                     |                                                        |     |             |
| 57 | (TCV_Null := OO_HookOff())                                              |                                                        |     | 9.          |
| 58 | L?DL_DatInConn                                                          | ConnRcv(Connect_01<br>(TI_01))                         |     |             |
| 59 | +localtree3                                                             |                                                        |     |             |
|    | <b>localtree3</b>                                                       |                                                        |     |             |
| 60 | [TCV_Setup_mt.bcap1.itc = '000'B]                                       |                                                        |     | Speech Call |
| 61 | (TCV_Res := OO_TCHThroConnCHK())                                        |                                                        |     |             |
| 62 | [NOT TCV_Res]                                                           |                                                        | (F) |             |
| 63 | +PostMainLinkRel(TCV_chTch)                                             |                                                        |     |             |
| 64 | [TCV_Res]                                                               |                                                        | (P) |             |
| 65 | +localtree4                                                             |                                                        |     |             |
| 66 | [TCV_Setup_mt.bcap1.itc <> '000'B]                                      |                                                        |     | Data Call   |
| 67 | +localtree4                                                             |                                                        |     |             |
|    | <b>localtree4</b>                                                       |                                                        |     |             |
| 68 | L!DL_DatRqConnAck                                                       | ConnAckSnd(TCV_ch<br>Tch,<br>ConnectAck_01(TI_0<br>2)) |     |             |
| 69 | [TCV_Setup_mt.bcap1.itc <> '000'B]                                      |                                                        |     | Data Call   |
| 70 | (TCV_Res := OO_TCHThroConnCHK())                                        |                                                        |     |             |
| 71 | [NOT TCV_Res]                                                           |                                                        | (F) |             |
| 72 | +PostMainLinkRel(TCV_chTch)                                             |                                                        |     |             |
| 73 | [TCV_Res]                                                               |                                                        | (P) |             |
| 74 | +localtree5                                                             |                                                        |     |             |
| 75 | [TCV_Setup_mt.bcap1.itc = '000'B]                                       |                                                        |     | Speech Call |
| 76 | +localtree5                                                             |                                                        |     |             |
|    | <b>localtree5</b>                                                       |                                                        |     |             |
| 77 | (TCV_Null := OO_TermCall())                                             |                                                        |     |             |
| 78 | L?DL_DatInDisc                                                          | DiscRcv(TCV_chTch,<br>DisconnR(TI_01,<br>Cause_Def))   |     |             |
| 79 | L!DL_DatRqRel                                                           | ReleaseSnd(TCV_ch<br>Tch,<br>Release_08(TI_02))        |     |             |
| 80 | L?DL_DatInRelCmp                                                        | RelComRcv(Release<br>Cmp_03(TI_01))                    |     |             |
| 81 | +PostMainLinkRel(TCV_chTch)                                             |                                                        |     |             |
|    | <b>asstrafficch(rate:IA5String)</b>                                     |                                                        |     |             |
| 82 | (TCV_Res := FALSE)                                                      |                                                        |     |             |
| 83 | +AssCmdGen(TCV_cellid, rate, TSPX_TmSlTDef,                             |                                                        |     |             |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                   |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|--|--|
| 84                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TSPX_TscDef, TSPX_TCHHSubDef<br>+AssCh_complete(TCV_ch, TCV_chTch,<br>TCV_AssCmd) |  |  |  |
| <b>Detailed Comments:</b> <ol style="list-style-type: none"><li>1. To perform the test on full rate telephony service.</li><li>2. To perform the test on half rate telephony.</li><li>3. To perform the test on TS62 service.</li><li>4. To setup the previous full rate channel into half rate channel.</li><li>5. Authentication is OK.</li><li>6. SETUP message without signal IE.</li><li>7. Early assignment.</li><li>8. Alerting indication not correct.</li><li>9. To accept the call at the MS.</li></ol> |                                                                                   |  |  |  |

**Test Case Dynamic Behaviour**

**Test Case Name:** TC\_26\_9\_5  
**Group:** GSM\_L3\_MS\_v4180/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).

**Default:** OtherEventsFail

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CRef | V | Comments |
|----|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| 1  |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
| 2  | body  | [TSPC_Serv_TS11]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
| 3  |       | +BasicServiceMT(C_Telephony, C_Full)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| 4  |       | +local_testfullrate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   | 1.       |
| 5  |       | [TSPC_DualRate]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   |          |
| 6  |       | +BasicServiceMT(C_Telephony, C_Half)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| 7  |       | +local_testhalfrate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   | 2.       |
| 8  |       | [NOT TSPC_DualRate]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
| 9  |       | [TSPC_Serv_TS62]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   | TS62     |
| 10 |       | +BasicServiceMT(C_AutoFax, C_Full)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
| 11 |       | +local_testfullrate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   | 3.       |
| 12 |       | [C_Yes]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      | I |          |
| 13 |       | <b>local_testfullrate</b><br>+IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, 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, |      |   |          |

|    |                                                                                                                                                                                                                                   |                                                                                                                                               |     |                         |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| 14 | C_Test_nfh, C_NCCP_2)<br>+FullRateCh_A_1(C_Ass, TSPX_TmSltDef,<br>TSPX_TscDef, ChMod_sign, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd,<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3)                        |                                                                                                                                               |     |                         |
| 15 | (TCV_Null := OM_ChMdModi(TCV_chTch,<br>TCV_ChMod))                                                                                                                                                                                |                                                                                                                                               |     |                         |
| 16 | +localtree(C_Full)                                                                                                                                                                                                                |                                                                                                                                               |     |                         |
| 17 | <b>local_testhalfrate</b><br>+HalfRateCh_A_1(TSPX_TCHHSubDef, C_Ass,<br>TSPX_TmSltDef, TSPX_TscDef, ChMod_speech,<br>FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA,<br>C_arfcn_tchAd, TimingAdv(0), C_BABR_0,<br>C_cch_1Comb, C_BPM_3) |                                                                                                                                               |     | 4.                      |
| 18 | +localtree(C_Half)                                                                                                                                                                                                                |                                                                                                                                               |     |                         |
| 19 | <b>localtree(rate:IA5String)</b><br>L!DL_UdatRqPg1Rq                                                                                                                                                                              | PgReq1(TCV_PgCh,<br>TCV_Pgg,<br>PgReqTp1_01)                                                                                                  |     |                         |
| 20 | L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)                                                                                                                                               | ChReq(ChRequest_1<br>7)                                                                                                                       |     |                         |
| 21 | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                      |                                                                                                                                               |     | To match ChReq retrans. |
| 22 | L!DL_UdatRqImm                                                                                                                                                                                                                    | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(0))) |     |                         |
| 23 | L?DL_EstInPgRes                                                                                                                                                                                                                   | PagingRes(PagingRe<br>s_03)                                                                                                                   |     |                         |
| 24 | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                         |                                                                                                                                               |     | Restore Normal default  |
| 25 | L!DL_DatRqAuthRq                                                                                                                                                                                                                  | AuthReq(TCV_ch,<br>AuthRequest(TSPX_<br>CKSNA,<br>TSPX_RANDA))                                                                                |     |                         |
| 26 | L?DL_DatInAuthRes(TCV_Sres:=DL_D<br>atInAuthRes.msg.sres)                                                                                                                                                                         | AuthRes(AuthRespon<br>se)                                                                                                                     |     |                         |
| 27 | (TCV_Res :=<br>OC_ChkSRES(TCV_Sres, TSPX_Ki,<br>TSPX_RANDA))                                                                                                                                                                      |                                                                                                                                               |     |                         |
| 28 | [NOT TCV_Res]                                                                                                                                                                                                                     |                                                                                                                                               | (F) |                         |
| 29 | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                          |                                                                                                                                               |     |                         |
| 30 | [TCV_Res]                                                                                                                                                                                                                         |                                                                                                                                               | (P) | 5.                      |
| 31 | +localtree1(rate)                                                                                                                                                                                                                 |                                                                                                                                               |     |                         |
| 32 | <b>localtree1(rate:IA5String)</b><br>+Cipherring_on(TCV_ch)                                                                                                                                                                       |                                                                                                                                               |     |                         |
| 33 | (TCV_Setup_mt.sig := Signal_01)                                                                                                                                                                                                   |                                                                                                                                               |     |                         |
| 34 | L!DL_DatRqSetup                                                                                                                                                                                                                   | SetupSnd(TCV_ch,<br>TCV_Setup_mt)                                                                                                             |     | 6.                      |
| 35 | L?DL_DatInCallCo (TCV_CallCfm :=<br>DL_DatInCallCo.msg)                                                                                                                                                                           | CallCfm(CallConfirm_<br>01(TI_01))                                                                                                            |     |                         |
| 36 | L?DL_DatInConn                                                                                                                                                                                                                    | ConnRcv(Connect_01<br>(TI_01))                                                                                                                |     |                         |
| 37 | +localtree2(rate)                                                                                                                                                                                                                 |                                                                                                                                               |     |                         |
| 38 | L?DL_DatInAlert                                                                                                                                                                                                                   | AlertRcv(AlertingInd_<br>01(TI_01))                                                                                                           |     |                         |
| 39 | [TSPC_AlertInd]                                                                                                                                                                                                                   |                                                                                                                                               |     |                         |
| 40 | (TCV_Res := OO_AltIndCHK())                                                                                                                                                                                                       |                                                                                                                                               |     |                         |
| 41 | [NOT TCV_Res]                                                                                                                                                                                                                     |                                                                                                                                               | (F) | 8.                      |
| 42 | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                          |                                                                                                                                               |     |                         |
| 43 | [TCV_Res]                                                                                                                                                                                                                         |                                                                                                                                               | (P) | 9.                      |
| 44 | (TCV_Null := OO_HookOff())                                                                                                                                                                                                        |                                                                                                                                               |     |                         |
| 45 | L?DL_DatInConn                                                                                                                                                                                                                    | ConnRcv(Connect_01<br>(TI_01))                                                                                                                |     |                         |

|                                                                    |                                                                               |                                                        |     |    |
|--------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------|-----|----|
| 46                                                                 | +localtree2(rate)                                                             |                                                        |     |    |
| 47                                                                 | [NOT TSPC_AlertInd]                                                           |                                                        |     |    |
| 48                                                                 | (TCV_Null := OO_HookOff())                                                    |                                                        |     | 9. |
| 49                                                                 | L?DL_DatInConn                                                                | ConnRcv(Connect_01<br>(TI_01))                         |     |    |
| 50                                                                 | +localtree2(rate)                                                             |                                                        |     |    |
|                                                                    | <b>localtree2(rate:IA5String)</b>                                             |                                                        |     |    |
| 51                                                                 | +AssCmdGen(TCV_cellid, rate, TSPX_TmSlitDef,<br>TSPX_TscDef, TSPX_TCHHSubDef) |                                                        |     |    |
| 52                                                                 | +AssCh_complete(TCV_ch, TCV_chTch,<br>TCV_AssCmd)                             |                                                        |     |    |
| 53                                                                 | +localtree3                                                                   |                                                        |     |    |
|                                                                    | <b>localtree3</b>                                                             |                                                        |     |    |
| 54                                                                 | [TCV_Setup_mt.bcap1.itc = '000'B]                                             |                                                        |     |    |
| 55                                                                 | (TCV_Res := OO_TCHThroConnCHK())                                              |                                                        |     |    |
| 56                                                                 | [NOT TCV_Res]                                                                 |                                                        | (F) |    |
| 57                                                                 | +PostMainLinkRel(TCV_chTch)                                                   |                                                        |     |    |
| 58                                                                 | [TCV_Res]                                                                     |                                                        | (P) |    |
| 59                                                                 | +localtree4                                                                   |                                                        |     |    |
| 60                                                                 | [TCV_Setup_mt.bcap1.itc <> '000'B]                                            |                                                        |     |    |
| 61                                                                 | +localtree4                                                                   |                                                        |     |    |
|                                                                    | <b>localtree4</b>                                                             |                                                        |     |    |
| 62                                                                 | L!DL_DatRqConnAck                                                             | ConnAckSnd(TCV_ch<br>Tch,<br>ConnectAck_01(TI_0<br>2)) |     |    |
| 63                                                                 | [TCV_Setup_mt.bcap1.itc <> '000'B]                                            |                                                        |     |    |
| 64                                                                 | (TCV_Res := OO_TCHThroConnCHK())                                              |                                                        |     |    |
| 65                                                                 | [NOT TCV_Res]                                                                 |                                                        | (F) |    |
| 66                                                                 | +PostMainLinkRel(TCV_chTch)                                                   |                                                        |     |    |
| 67                                                                 | [TCV_Res]                                                                     |                                                        | (P) |    |
| 68                                                                 | +PostMainLinkRel(TCV_chTch)                                                   |                                                        |     |    |
| 69                                                                 | [TCV_Setup_mt.bcap1.itc = '000'B]                                             |                                                        |     |    |
| 70                                                                 | +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

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_26_9_6_1_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Group:</b>          | GSM_L3_MS_v4180/StructureProc/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Purpose:</b>        | <p>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".</p> <p>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" .</p> <p>3) To verify that authentication and cipher mode setting are performed successfully.</p> <p>4) To verify that after cipher mode setting acceptance by the SS, the MS sends an EMERGENCY SETUP message.</p> <p>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.</p> <p>6) To verify subsequent correct performance of a connect procedure.</p> <p>7) To verify that subsequently the MS has through connected the TCH in both directions.</p> <p>8) To verify that the call is cleared correctly.</p> |
| <b>Default:</b>        | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CRef                                                                                                                   | V   | 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_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) |                                                                                                                        |     | 1.                      |
| 4  | body  | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                        |     |                         |
| 5  |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ChReq(ChRequest_16)                                                                                                    | (P) | 2.                      |
| 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_EstInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CMSerReq(CMServiceReq_06)                                                                                              | (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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | AuthRes(AuthRespon                                                                                                     |     |                         |

|    |                                                                                                                                                                                                      |                                                                                       |     |     |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----|-----|
| 12 | := DL_DatInAuthRes.msg.sres)<br>+local_continue                                                                                                                                                      | se)                                                                                   |     |     |
|    | <b>local_continue</b>                                                                                                                                                                                |                                                                                       |     |     |
| 13 | (TCV_Res := OC_ChkSRES(TCV_Sres, TSPX_Ki,<br>TSPX_RANDA))                                                                                                                                            |                                                                                       |     |     |
| 14 | [NOT TCV_Res]                                                                                                                                                                                        |                                                                                       | (F) | 4.  |
| 15 | +PostMainLinkRel(TCV_ch)                                                                                                                                                                             |                                                                                       |     |     |
| 16 | [TCV_Res]                                                                                                                                                                                            |                                                                                       | (P) | 5.  |
| 17 | +Cipherring_on(TCV_ch)                                                                                                                                                                               |                                                                                       |     |     |
| 18 | +RcvSetupOrEsetup(TCV_Setup_mo,<br>TCV_Esetup, TCV_Ecall)                                                                                                                                            |                                                                                       |     | 6.  |
| 19 | +local_preferred_rate                                                                                                                                                                                |                                                                                       |     |     |
| 20 | L!DL_DatRqCallProc                                                                                                                                                                                   | CallProc(TCV_ch,<br>TCV_CallProc)                                                     |     |     |
| 21 | L!DL_DatRqAlert                                                                                                                                                                                      | AlertSnd(TCV_ch,<br>Alerting_01(TCV_TI))                                              |     |     |
| 22 | +AssCmdGen( TCV_cellid,<br>TCV_ChRate, TSPX_TmSltDef,<br>TSPX_TscDef, TSPX_TCHHSubDef)                                                                                                               |                                                                                       |     |     |
| 23 | +AssCh_complete(TCV_ch,<br>TCV_chTch, TCV_AssCmd)                                                                                                                                                    |                                                                                       |     |     |
| 24 | +local_continue1                                                                                                                                                                                     |                                                                                       |     |     |
|    | <b>local_continue1</b>                                                                                                                                                                               |                                                                                       |     |     |
| 25 | L!DL_DatRqConn                                                                                                                                                                                       | ConnSnd(TCV_chTch<br>,<br>Connect_02(TCV_TI))                                         |     |     |
| 26 | L?DL_DatInConnAck                                                                                                                                                                                    | ConnAckRcv(Connect<br>Ack_02(TCV_TIO))                                                | (P) |     |
| 27 | (TCV_Res := OO_TCHThroConnCHK())                                                                                                                                                                     |                                                                                       |     |     |
| 28 | [NOT TCV_Res]                                                                                                                                                                                        |                                                                                       | (F) | 7.  |
| 29 | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                          |                                                                                       |     |     |
| 30 | [TCV_Res]                                                                                                                                                                                            |                                                                                       | (P) | 8.  |
| 31 | L!DL_DatRqDisc                                                                                                                                                                                       | DiscSnd(TCV_chTch,<br>DisconnS(TCV_TI,<br>Cause_01,<br>ProgInd_omit,<br>UuInfo_omit)) |     |     |
| 32 | L?DL_DatInRel                                                                                                                                                                                        | ReleaseRcv(Release<br>_10(TCV_TIO))                                                   | (P) |     |
| 33 | L!DL_DatRqRelCmp                                                                                                                                                                                     | RelComSnd(TCV_ch<br>Tch,<br>ReleaseCmp_08(TCV<br>_TI))                                |     |     |
| 34 | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                          |                                                                                       |     |     |
|    | <b>local_preferred_rate</b>                                                                                                                                                                          |                                                                                       |     |     |
| 35 | (TCV_Rchr := TCV_Setup_mo1.bcaph1.rchr)                                                                                                                                                              |                                                                                       |     |     |
| 36 | [TCV_Rchr = '11'B]                                                                                                                                                                                   |                                                                                       |     | 9.  |
| 37 | +FullRateCh_A_1(C_Ass, TSPX_TmSltDef,<br>TSPX_TscDef, ChMod_speech, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA,<br>C_arfcn_tchAd, TimingAdv(0), C_BABR_0,<br>C_cch_1Comb, C_BPM_3)                  |                                                                                       |     |     |
| 38 | (TCV_ChRate := C_Full)                                                                                                                                                                               |                                                                                       |     |     |
| 39 | [TCV_Rchr = '10'B]                                                                                                                                                                                   |                                                                                       |     | 10. |
| 40 | +HalfRateCh_A_1(TSPX_TCHHSubDef, C_Ass,<br>TSPX_TmSltDef, TSPX_TscDef, ChMod_speech,<br>FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA,<br>C_arfcn_tchAd, TimingAdv(0), C_BABR_0,<br>C_cch_1Comb, C_BPM_3) |                                                                                       |     |     |
| 41 | (TCV_ChRate := C_Half)                                                                                                                                                                               |                                                                                       |     |     |

**Detailed Comments:**

1. To setup a physical channels as BCCH CCCH and SDCCH4 combined channel.
2. CHANNEL REQUEST with "emergency call establishment" cause received.
3. CM SERVICE REQUEST with "emergency call establishment" service type 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:** GSM\_L3\_MS\_v4180/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.

**Default:** OtherEventsFail

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CRef                                                                                                                                                         | V   | Comments                |
|----|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| 1  |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                              |     |                         |
| 2  |       | +BasicServiceMO(C_EmgCall,<br>TSPX_EmgCallRate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                              |     |                         |
| 3  |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_ImmAss, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNA, TSPX_RANDA, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                                                                                                                                              |     | 1.                      |
| 4  | body  | +local_continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                              |     |                         |
|    |       | <b>local_continue</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                              |     |                         |
| 5  |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                              |     |                         |
| 6  |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ChReq(ChRequest_1<br>6)                                                                                                                                      | (P) | 2.                      |
| 7  |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                              |     | To match ChReq retrans. |
| 8  |       | L!DL_UdatRqImmAss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(TSPX_Ti<br>madvA))) |     |                         |
| 9  |       | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CMSerReq(CMServic<br>eReq_06)                                                                                                                                | (P) | 3.                      |
| 10 |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                              |     | Restore Normal default  |
| 11 |       | +Authentication(TCV_ch, TSPX_CKSNA,<br>TSPX_RANDA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                              |     |                         |
| 12 |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                              | (F) | 4.                      |
| 13 |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                              |     |                         |
| 14 |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                              | (P) | 5.                      |

|    |                                                                                                                                                                                           |                                                                           |     |     |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----|-----|
| 15 | +Cipherring_on(TCV_ch)                                                                                                                                                                    |                                                                           |     |     |
| 16 | +local_continue1                                                                                                                                                                          |                                                                           |     |     |
|    | <b>local_continue1</b>                                                                                                                                                                    |                                                                           |     |     |
| 17 | +RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)                                                                                                                                    |                                                                           |     | 6.  |
| 18 | +local_nonpreferred_rate                                                                                                                                                                  |                                                                           |     |     |
| 19 | LIDL_DatRqCallProc                                                                                                                                                                        | CallProc(TCV_ch, TCV_CallProc)                                            |     |     |
| 20 | LIDL_DatRqAlert                                                                                                                                                                           | AlertSnd(TCV_ch, Alerting_01(TCV_TI))                                     |     |     |
| 21 | +AssCmdGen(TCV_cellid, TCV_ChRate, TSPX_TmSlitDef, TSPX_TscDef, TSPX_TCHHSubDef)                                                                                                          |                                                                           |     |     |
| 22 | +AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)                                                                                                                                            |                                                                           |     |     |
| 23 | +local_continue2                                                                                                                                                                          |                                                                           |     |     |
|    | <b>local_continue2</b>                                                                                                                                                                    |                                                                           |     |     |
| 24 | LIDL_DatRqConn                                                                                                                                                                            | ConnSnd(TCV_chTch, Connect_02(TCV_TI))                                    |     |     |
| 25 | L?DL_DatInConnAck                                                                                                                                                                         | ConnAckRcv(Connect Ack_02(TCV_TI0))                                       | (P) |     |
| 26 | (TCV_Res := OO_TCHThroConnCHK())                                                                                                                                                          |                                                                           |     |     |
| 27 | [NOT TCV_Res]                                                                                                                                                                             |                                                                           | (F) | 9.  |
| 28 | +PostMainLinkRel(TCV_chTch)                                                                                                                                                               |                                                                           |     |     |
| 29 | [TCV_Res]                                                                                                                                                                                 |                                                                           | (P) | 10. |
| 30 | LIDL_DatRqDisc                                                                                                                                                                            | DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_omit, UuInfo_omit)) |     |     |
| 31 | L?DL_DatInRel                                                                                                                                                                             | ReleaseRcv(Release_10(TCV_TI0))                                           | (P) |     |
| 32 | LIDL_DatRqRelCmp                                                                                                                                                                          | RelComSnd(TCV_chTch, ReleaseCmp_08(TCV_TI))                               |     |     |
| 33 | +PostMainLinkRel(TCV_chTch)                                                                                                                                                               |                                                                           |     |     |
|    | <b>local_nonpreferred_rate</b>                                                                                                                                                            |                                                                           |     |     |
| 34 | (TCV_Rchr := TCV_Setup_mo1.bcap1.rchr)                                                                                                                                                    |                                                                           |     |     |
| 35 | [TCV_Rchr = '10'B]                                                                                                                                                                        |                                                                           |     | 7.  |
| 36 | +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)                  |                                                                           |     |     |
| 37 | (TCV_ChRate := C_Full)                                                                                                                                                                    |                                                                           |     |     |
| 38 | [TCV_Rchr = '11'B]                                                                                                                                                                        |                                                                           |     | 8.  |
| 39 | +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) |                                                                           |     |     |
| 40 | (TCV_ChRate := C_Half)                                                                                                                                                                    |                                                                           |     |     |

**Detailed Comments:**

1. To setup a physical channels as BCCH CCCH and SDCCH4 combined channel.
2. CHANNEL REQUEST with "emergency call establishment" cause received.
3. CM SERVICE REQUEST with "emergency call establishment" service type received.
4. Authentication failed.
5. Authentication passed.
6. EMERGENCY SETUP with a BC indicating "dual rate/half rate preferred" or "dual rate/full rate preferred" received.
7. dual rate / half rate preferred" case. setup a physical channel as full rate traffic channel and the non-preferred full rate channel is to be assigned.
8. dual rate / full rate preferred" case. setup a physical channel as half rate traffic channel and the non-preferred half rate channel is to be assigned.
9. The TCH channel is not through connected, fail.

10. The TCH channel is through connected.

### Test Case Dynamic Behaviour

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_26_9_6_2_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Group:</b>          | GSM_L3_MS_v4180/StructureProc/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Purpose:</b>        | <p>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".</p> <p>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.</p> <p>3) To verify that after receipt of a CM SERVICE ACCEPT message from the SS, the MS sends an EMERGENCY SETUP message.</p> <p>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.</p> <p>5) To verify subsequent correct performance of a connect procedure.</p> <p>6) To verify that subsequently the MS has through connected the TCH in both directions.</p> <p>7) To verify that the call is cleared correctly.</p> |
| <b>Default:</b>        | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Comments:</b>       | For this test case the SIM card shall be removed from the MS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                                                                                                                          | V   | Comments                |
|----|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| 1  |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                               |     |                         |
| 2  |       | +BasicServiceMO(C_EmgCall,<br>TSPX_EmgCallRate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                               |     |                         |
| 3  |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_ImmAss, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECL_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_TmsiOff, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                                                                                                                               |     | 1.                      |
| 4  |       | +CCConfigTCH_nociph(TSPX_TCHHSubDef,<br>C_Ass, TSPX_TmSltDef, TSPX_TscDef,<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3, TCV_ChMod.mode, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                               |     |                         |
| 5  | body  | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                               |     |                         |
| 6  |       | L?DL_RaInChRq (TCV_Rr :=<br>DL_RaInChRq.msg.ecau_rrf, TCV_Fn :=<br>DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ChReq(ChRequest_1<br>6)                                                                                                                       | (P) | 2.                      |
| 7  |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                               |     | To match ChReq retrans. |
| 8  |       | L!DL_UdatRqImmAss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(0))) |     |                         |
| 9  |       | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CMSerReq(CMServic<br>eReq_07)                                                                                                                 | (P) | 3.                      |
| 10 |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                               |     | Restore Normal default  |
| 11 |       | L!DL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CMSerAcp(TCV_ch,<br>CMSerAcp_01)                                                                                                              |     |                         |
| 12 |       | +local_continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                               |     |                         |

|    |                                                                                       |                                                                                       |     |    |
|----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----|----|
| 13 | <b>local_continue</b><br>+RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup,<br>TCV_Ecall)    |                                                                                       |     | 4. |
| 14 | L!DL_DatRqCallProc                                                                    | CallProc(TCV_ch,<br>TCV_CallProc)                                                     |     |    |
| 15 | L!DL_DatRqAlert                                                                       | AlertSnd(TCV_ch,<br>Alerting_01(TCV_TI))                                              |     |    |
| 16 | +AssCmdGen(TCV_cellid, TCV_ChRate,<br>TSPX_TmSltDef, TSPX_TscDef,<br>TSPX_TCHHSubDef) |                                                                                       |     | 5. |
| 17 | +AssCh_complete(TCV_ch, TCV_chTch,<br>TCV_AssCmd)                                     |                                                                                       |     |    |
| 18 | +local_continue1                                                                      |                                                                                       |     |    |
| 19 | <b>local_continue1</b><br>L!DL_DatRqConn                                              | ConnSnd(TCV_chTch<br>,<br>Connect_02(TCV_TI))                                         |     |    |
| 20 | L?DL_DatInConnAck                                                                     | ConnAckRcv(Connect<br>Ack_02(TCV_TI0))                                                | (P) |    |
| 21 | (TCV_Res := OO_TCHthroConnCHK())                                                      |                                                                                       |     |    |
| 22 | [NOT TCV_Res]                                                                         |                                                                                       | (F) | 6. |
| 23 | +PostMainLinkRel(TCV_chTch)                                                           |                                                                                       |     |    |
| 24 | [TCV_Res]                                                                             |                                                                                       | (P) | 7. |
| 25 | L!DL_DatRqDisc                                                                        | DiscSnd(TCV_chTch,<br>DisconnS(TCV_TI,<br>Cause_01,<br>ProgInd_omit,<br>UuInfo_omit)) |     |    |
| 26 | L?DL_DatInRel                                                                         | ReleaseRcv(Release<br>_10(TCV_TI0))                                                   | (P) |    |
| 27 | L!DL_DatRqRelCmp                                                                      | RelComSnd(TCV_ch<br>Tch,<br>ReleaseCmp_08(TCV<br>_TI))                                |     |    |
| 28 | L!DL_DatRqChRel                                                                       | ChRel(TCV_chTch,<br>ChRelease_01)                                                     |     |    |
| 29 | L?DL_Relln                                                                            | DLRelInd_01                                                                           | (P) | 8. |

**Detailed Comments:**

1. To setup a physical channel as BCCH CCCH and SDCCH4 combined channel.
2. CHANNEL REQUEST with "emergency call establishment" cause received.
3. CM SERVICE REQUEST with "emergency call establishment" service type received and the mobile identity IE specifies the IMEI of the MS, the classmark IE has the value specified in PIXIT.
4. EMERGENCY SETUP with BC indicating or without BC received.
5. To assign the traffic channel.
6. The TCH channel is not through connected, fail.
7. The TCH channel is through connected.
8. Main signalling link is released.

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                        |     |                         |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| <b>Test Case Name:</b>      |       | TC_26_9_6_2_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                        |     |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/StructureProc/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                        |     |                         |
| <b>Purpose:</b>             |       | <p>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".</p> <p>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.</p> <p>3) To verify that after receipt of a CM SERVICE REJECT message from the SS, the MS abandons the emergency call establishment.</p> |                                                                                                                        |     |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                        |     |                         |
| <b>Comments:</b>            |       | For this test case the SIM card shall be removed from the MS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                        |     |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CRef                                                                                                                   | V   | 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_ImmAsgn, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_TmsiOff, TSPX_SDCCH4SubDef, TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)                                                                                                                                        |                                                                                                                        |     |                         |
| 4                           | body  | +local_continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                        |     |                         |
|                             |       | <b>local_continue</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                        |     |                         |
| 5                           |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                        |     |                         |
| 6                           |       | 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. |
| 8                           |       | LIDL_UdatRqImmAsgn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 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_07)                                                                                              | (P) | 3.                      |
| 10                          |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                        |     | Restore Normal default  |
| 11                          |       | LIDL_DatRqCmsRej                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CMSerRej(TCV_ch, CMServiceRej_02)                                                                                      |     |                         |
| 12                          |       | START T_dly(5000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                        |     | 4.                      |
| 13                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                        |     |                         |
| 14                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                        |     |                         |
| 15                          |       | START T_dly(20000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                        |     | 5.                      |
| 16                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                        |     |                         |
| <b>Detailed Comments:</b>   |       | <p>1. To setup a physical channel as BCCH CCCH and SDCCH4.</p> <p>2. CHANNEL REQUEST with "emergency call" received.</p> <p>3. CM SERVICE REQUEST with "emergency call establishment", IMEI, "no key available" and classmark received.</p> <p>4. To check whether the MS sends any L 3 messages, the test case fails in the default tree if the MS does.</p> <p>5. To check whether the MS initiates an RR connection establishment, the test case fails in the default tree if the MS does.</p>                                                                                                                                                                                                                |                                                                                                                        |     |                         |

## Test Group EGSMsignalling

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_10_2_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/EGSMsignalling/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |          |
| <b>Purpose:</b>             |       | To verify that the MS reports appropriate results when the test system gives information about neighbouring cells                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CRef | V | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   |          |
| 2                           |       | +BasicServiceMT(TSPX_MTBscSvcA, TSPX_MTChRateA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |          |
| 3                           |       | +IdleUpdated(C_E_suitable, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(30), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_21, BcchFreqLst_Omit, BcchFreqLst_27, BcchFreqLst_Omit, C_noRestablishment, C_BCC_3, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubA, TSPX_CKSNDef, TSPX_RANDDef, C_arfcn_2, C_arfcnAd_2, TSPX_IMSI, C_Test_fh, C_NCCP_2) |      |   |          |
| 4                           |       | +StartMultiCells_02(BcchFreqLst_21, BcchFreqLst_27, C_Immass, TCV_slot, TCV_tsc, TimingAdv(30), C_ATT_0, C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1, C_LAC_2, C_LAC_3, C_LAC_4, C_LAC_5, C_LAC_6, C_LAC_7, C_LAC_8)                                                                                                                                                                                                                                                                                                                                      |      |   |          |
| 5                           |       | (TCV_Cnt:=0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   |          |
| 6                           |       | REPEAT ltree_loopForC UNTIL [TCV_Cnt =6]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
|                             |       | <b>ltree_loopForC</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
| 7                           |       | +ltree_StartMultiCells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
| 8                           |       | +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)                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| 9                           | body  | +PreEnterCCstateU10_r01(TimingAdv(30), TSPX_SDCCH4SubA, 0, 3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| 16                          |       | (TCV_Null := OM_StopMsrReport(TCV_sacchTch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   |          |
| 17                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 18                          |       | +execution2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
|                             |       | <b>execution2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |          |
| 19                          |       | +ltree_sysinfo5and5bis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   | 1.       |
| 20                          |       | +PreEnterCCstateU10_r01(TimingAdv(30), TSPX_SDCCH4SubA, 0, 3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| 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 :=<br>OM_StopMsrReport(TCV_sacchTch))               |                                                         |     |
| 28 | +PostMainLinkRel(TCV_chTch)                                   |                                                         |     |
| 29 | (TCV_Cnt:=(TCV_Cnt +1))                                       |                                                         |     |
|    | <b>ltree_sysinfo5and5bis</b>                                  |                                                         |     |
| 30 | [TCV_Cnt = 1]                                                 |                                                         |     |
| 31 | LIDL_UdatRqSysinfo5                                           | SysInfo5(TCV_sacch,<br>SysInf5(BcchFreqLst_e201))       |     |
| 32 | LIDL_UdatRqSysinfo5bis                                        | SysInfo5bis(TCV_sacch,<br>SysInf5bis(BcchFreqLst_e207)) |     |
| 33 | [TCV_Cnt = 2]                                                 |                                                         |     |
| 34 | LIDL_UdatRqSysinfo5                                           | SysInfo5(TCV_sacch,<br>SysInf5(BcchFreqLst_e202))       |     |
| 35 | LIDL_UdatRqSysinfo5bis                                        | SysInfo5bis(TCV_sacch,<br>SysInf5bis(BcchFreqLst_e208)) |     |
| 36 | [TCV_Cnt = 3]                                                 |                                                         |     |
| 37 | LIDL_UdatRqSysinfo5                                           | SysInfo5(TCV_sacch,<br>SysInf5(BcchFreqLst_e203))       |     |
| 38 | LIDL_UdatRqSysinfo5bis                                        | SysInfo5bis(TCV_sacch,<br>SysInf5bis(BcchFreqLst_e209)) |     |
| 39 | [TCV_Cnt = 4]                                                 |                                                         |     |
| 40 | LIDL_UdatRqSysinfo5                                           | SysInfo5(TCV_sacch,<br>SysInf5(BcchFreqLst_e204))       |     |
| 41 | LIDL_UdatRqSysinfo5bis                                        | SysInfo5bis(TCV_sacch,<br>SysInf5bis(BcchFreqLst_e210)) |     |
| 42 | [TCV_Cnt = 5]                                                 |                                                         |     |
| 43 | LIDL_UdatRqSysinfo5                                           | SysInfo5(TCV_sacch,<br>SysInf5(BcchFreqLst_e205))       |     |
| 44 | LIDL_UdatRqSysinfo5bis                                        | SysInfo5bis(TCV_sacch,<br>SysInf5bis(BcchFreqLst_e211)) |     |
| 45 | [TCV_Cnt = 6]                                                 |                                                         |     |
| 46 | LIDL_UdatRqSysinfo5                                           | SysInfo5(TCV_sacch,<br>SysInf5(BcchFreqLst_e206))       |     |
| 47 | LIDL_UdatRqSysinfo5bis                                        | SysInfo5bis(TCV_sacch,<br>SysInf5bis(BcchFreqLst_e212)) |     |
|    | <b>local_MsrReptCHK(in1, in2:INTEGER)</b>                     |                                                         |     |
| 48 | (TCV_Res := OC_MsrReptChk(TCV_MsrRes, in1))                   |                                                         |     |
| 49 | [NOT TCV_Res]                                                 |                                                         | (F) |
| 50 | [TCV_Res]                                                     |                                                         | (P) |
|    | <b>ltree_receiveMsrRept</b>                                   |                                                         |     |
| 51 | [TCV_Cnt = 1]                                                 |                                                         |     |
| 52 | L?DL_UdatInMsrRpt (TCV_MsrRes :=<br>DL_UdatInMsrRpt.msg.msrr) | MsrRept(MsrReport_03e(MsrResult_03e1))                  |     |
| 53 | [TCV_Cnt = 2]                                                 |                                                         |     |
| 54 | L?DL_UdatInMsrRpt (TCV_MsrRes :=<br>DL_UdatInMsrRpt.msg.msrr) | MsrRept(MsrReport_03e(MsrResult_03e2))                  |     |
| 55 | [TCV_Cnt = 3]                                                 |                                                         |     |
| 56 | L?DL_UdatInMsrRpt (TCV_MsrRes :=                              | MsrRept(MsrReport_0                                     |     |

|    |                                                                                                                                                                                                                                                           |                                            |     |    |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----|----|
| 57 | DL_UdatInMsrRpt.msg.msrr                                                                                                                                                                                                                                  | 3e(MsrResult_03e3))                        |     |    |
| 58 | [TCV_Cnt = 4]<br>L?DL_UdatInMsrRpt (TCV_MsrRes :=<br>DL_UdatInMsrRpt.msg.msrr)                                                                                                                                                                            | MsrRept(MsrReport_0<br>3e(MsrResult_03e4)) |     |    |
| 59 | [TCV_Cnt = 5]                                                                                                                                                                                                                                             |                                            |     |    |
| 60 | L?DL_UdatInMsrRpt (TCV_MsrRes :=<br>DL_UdatInMsrRpt.msg.msrr)                                                                                                                                                                                             | MsrRept(MsrReport_0<br>3e(MsrResult_03e5)) |     |    |
| 61 | [TCV_Cnt = 6]                                                                                                                                                                                                                                             |                                            |     |    |
| 62 | L?DL_UdatInMsrRpt (TCV_MsrRes :=<br>DL_UdatInMsrRpt.msg.msrr)                                                                                                                                                                                             | MsrRept(MsrReport_0<br>4e)                 |     |    |
|    | <b>Itree_receiveMsrRept2</b>                                                                                                                                                                                                                              |                                            |     |    |
| 63 | [TCV_Cnt = 1]                                                                                                                                                                                                                                             |                                            |     |    |
| 64 | ?TIMEOUT T_dly1                                                                                                                                                                                                                                           |                                            | (F) | 1. |
| 65 | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                               |                                            |     |    |
| 66 | L?DL_UdatInMsrRpt (TCV_MsrRes :=<br>DL_UdatInMsrRpt.msg.msrr) CANCEL T_dly1                                                                                                                                                                               | MsrRept(MsrReport_0<br>3e(MsrResult_03e1)) |     |    |
| 67 | [TCV_Cnt = 2]                                                                                                                                                                                                                                             |                                            |     |    |
| 68 | ?TIMEOUT T_dly1                                                                                                                                                                                                                                           |                                            | (F) | 1. |
| 69 | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                               |                                            |     |    |
| 70 | L?DL_UdatInMsrRpt (TCV_MsrRes :=<br>DL_UdatInMsrRpt.msg.msrr) CANCEL T_dly1                                                                                                                                                                               | MsrRept(MsrReport_0<br>3e(MsrResult_03e2)) |     |    |
| 71 | [TCV_Cnt = 3]                                                                                                                                                                                                                                             |                                            |     |    |
| 72 | ?TIMEOUT T_dly1                                                                                                                                                                                                                                           |                                            | (F) | 1. |
| 73 | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                               |                                            |     |    |
| 74 | L?DL_UdatInMsrRpt (TCV_MsrRes :=<br>DL_UdatInMsrRpt.msg.msrr) CANCEL T_dly1                                                                                                                                                                               | MsrRept(MsrReport_0<br>3e(MsrResult_03e3)) |     |    |
| 75 | [TCV_Cnt = 4]                                                                                                                                                                                                                                             |                                            |     |    |
| 76 | ?TIMEOUT T_dly1                                                                                                                                                                                                                                           |                                            | (F) | 1. |
| 77 | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                               |                                            |     |    |
| 78 | L?DL_UdatInMsrRpt (TCV_MsrRes :=<br>DL_UdatInMsrRpt.msg.msrr) CANCEL T_dly1                                                                                                                                                                               | MsrRept(MsrReport_0<br>3e(MsrResult_03e4)) |     |    |
| 79 | [TCV_Cnt = 5]                                                                                                                                                                                                                                             |                                            |     |    |
| 80 | ?TIMEOUT T_dly1                                                                                                                                                                                                                                           |                                            | (F) | 1. |
| 81 | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                               |                                            |     |    |
| 82 | L?DL_UdatInMsrRpt (TCV_MsrRes :=<br>DL_UdatInMsrRpt.msg.msrr) CANCEL T_dly1                                                                                                                                                                               | MsrRept(MsrReport_0<br>3e(MsrResult_03e5)) |     |    |
| 83 | [TCV_Cnt = 6]                                                                                                                                                                                                                                             |                                            |     |    |
| 84 | ?TIMEOUT T_dly1                                                                                                                                                                                                                                           |                                            | (F) | 1. |
| 85 | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                               |                                            |     |    |
| 86 | L?DL_UdatInMsrRpt (TCV_MsrRes :=<br>DL_UdatInMsrRpt.msg.msrr) CANCEL T_dly1                                                                                                                                                                               | MsrRept(MsrReport_0<br>4e)                 |     |    |
|    | <b>Itree_StartMultiCells</b>                                                                                                                                                                                                                              |                                            |     |    |
| 87 | [TCV_Cnt = 0]                                                                                                                                                                                                                                             |                                            |     |    |
| 88 | [TCV_Cnt = 1]                                                                                                                                                                                                                                             |                                            |     |    |
| 89 | +StartMultiCells_02e(BcchFreqLst_e201,<br>BcchFreqLst_27, C_Immass, TCV_slot, TCV_tsc,<br>TimingAdv(0), 0, C_BABR_0, C_cch_1Comb,<br>C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1,<br>C_LAC_1, C_LAC_2, C_LAC_3, C_LAC_4,<br>C_LAC_5, C_LAC_6, C_LAC_7, C_LAC_8) |                                            |     |    |
| 90 | [TCV_Cnt = 2]                                                                                                                                                                                                                                             |                                            |     |    |
| 91 | +StartMultiCells_02e(BcchFreqLst_e202,<br>BcchFreqLst_27, C_Immass, TCV_slot, TCV_tsc,<br>TimingAdv(0), 0, C_BABR_0, C_cch_1Comb,<br>C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1,<br>C_LAC_1, C_LAC_2, C_LAC_3, C_LAC_4,<br>C_LAC_5, C_LAC_6, C_LAC_7, C_LAC_8) |                                            |     |    |
| 92 | [TCV_Cnt = 3]                                                                                                                                                                                                                                             |                                            |     |    |
| 93 | +StartMultiCells_02e(BcchFreqLst_e203,<br>BcchFreqLst_27, C_Immass, TCV_slot, TCV_tsc,<br>TimingAdv(0), 0, C_BABR_0, C_cch_1Comb,<br>C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1,<br>C_LAC_1, C_LAC_2, C_LAC_3, C_LAC_4,<br>C_LAC_5, C_LAC_6, C_LAC_7, C_LAC_8) |                                            |     |    |
| 94 | [TCV_Cnt = 4]                                                                                                                                                                                                                                             |                                            |     |    |
| 95 | +StartMultiCells_02e(BcchFreqLst_e204,<br>BcchFreqLst_27, C_Immass, TCV_slot, TCV_tsc,                                                                                                                                                                    |                                            |     |    |

|                                                                                                                                              |                                                                                                                                                                                                                                                           |  |  |
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| 96                                                                                                                                           | TimingAdv(0), 0, C_BABR_0, C_cch_1Comb,<br>C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1,<br>C_LAC_1, C_LAC_2, C_LAC_3, C_LAC_4,<br>C_LAC_5, C_LAC_6, C_LAC_7, C_LAC_8)                                                                                           |  |  |
| 97                                                                                                                                           | [TCV_Cnt = 5]                                                                                                                                                                                                                                             |  |  |
| 98                                                                                                                                           | +StartMultiCells_02e(BcchFreqLst_e205,<br>BcchFreqLst_27, C_Immass, TCV_slot, TCV_tsc,<br>TimingAdv(0), 0, C_BABR_0, C_cch_1Comb,<br>C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1,<br>C_LAC_1, C_LAC_2, C_LAC_3, C_LAC_4,<br>C_LAC_5, C_LAC_6, C_LAC_7, C_LAC_8) |  |  |
| 99                                                                                                                                           | [TCV_Cnt = 6]                                                                                                                                                                                                                                             |  |  |
|                                                                                                                                              | +StartMultiCells_02e(BcchFreqLst_e206,<br>BcchFreqLst_27, C_Immass, TCV_slot, TCV_tsc,<br>TimingAdv(0), 0, C_BABR_0, C_cch_1Comb,<br>C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1,<br>C_LAC_1, C_LAC_2, C_LAC_3, C_LAC_4,<br>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>               |       | GSM_L3_MS_v4180/EGSMsignalling/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                         |     |                         |
| <b>Purpose:</b>             |       | To verify that the MS can correctly set up a dedicated control channel when E-GSM frequencies are used.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                         |     |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                         |     |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                                                                    | V   | Comments                |
| 1                           | pre   | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                         |     |                         |
| 2                           |       | (TCV_ia_ts:= TSPX_TmSlitNotZero, TCV_Cnt:= 0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                         |     |                         |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_ImmAss, C_S0, C_SlotNU, C_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_noReestablishment, 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) |                                                                                                         |     |                         |
| 4                           |       | +SDCCH8_A_1_nociph(TSPX_SDCCH8SubA, C_Ass, TSPX_TmSlitNotZero, TSPX_TscDef, ChMod_sign, FreqSDCCH8_e1, FreqSDCCH8_e1, TimingAdv(0), C_BABR_0, C_cch_1nonComb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                         |     | for 1)                  |
| 5                           |       | +SysInfo_5bisSending(TCV_sacch8, TCV_sysinfo5bis)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                         |     |                         |
| 6                           |       | +SDCCH8_A_2_nociph(TSPX_SDCCH8SubB, C_Ass, TSPX_TmSlitNotZero, TSPX_TscDef, ChMod_r01, FreqSDCCH8_e2, FreqSDCCH8_e2, TimingAdv(0), C_BABR_0, C_cch_1nonComb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                         |     | for 2)                  |
| 7                           |       | +SysInfo_5bisSending(TCV_sacchTch, TCV_sysinfo5bis)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                         |     |                         |
| 8                           | body  | REPEAT localtree_body<br>UNTIL [TCV_Cnt =2]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                         |     |                         |
|                             |       | <b>localtree_body</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                         |     |                         |
| 9                           |       | L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)                                                                  |     |                         |
| 10                          |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ChReq(ChRequest_17)                                                                                     |     |                         |
| 11                          |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                         |     | To match ChReq retrans. |
| 12                          |       | +ltree_send_immass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                         |     |                         |
| 13                          |       | L?DL_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PgRes(TCV_ch, PagingRes_01)                                                                             | (P) |                         |
| 14                          |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                         |     | Restore Normal default  |
| 15                          |       | +ChanRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                         |     |                         |
| 16                          |       | (TCV_Cnt := TCV_Cnt + 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                         |     |                         |
|                             |       | <b>ltree_send_immass</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                         |     |                         |
| 17                          |       | [TCV_Cnt = 1]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                         |     |                         |
| 18                          |       | L!DL_UdatRqImmAss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ImmAss(TCV_agch, ImmAsgn_E_01(TCV_Rr, TCV_Fn, TCV_ia_ts, TSPX_TscDef, TCV_chdescr_arfcn, TimingAdv(0))) |     | 1)                      |
| 19                          |       | (TCV_ch := OC_SubchOfSdcch8(TSPX_SDCCH8SubA, C_CellA, 1))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                         |     |                         |
| 20                          |       | [TCV_Cnt = 2]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                         |     |                         |
| 21                          |       | L!DL_UdatRqImmAss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ImmAss(TCV_agch,                                                                                        |     | 2)                      |

|                                                                                                                                                                                          |                                                                 |                                                                                 |  |
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| 22                                                                                                                                                                                       | (TCV_ch :=<br>OC_SubchOfSdcch8(TSPX_SDCCH8SubB,<br>C_CellA, 2)) | ImmAsgn_E_02(TCV<br>_Rr, TCV_Fn,<br>TCV_ia_ts,<br>TSPX_TscDef,<br>TimingAdv(0)) |  |
| <b>Detailed Comments:</b> <ul style="list-style-type: none"> <li>1) Immediate Assignment with single RF on ARFCN=1015</li> <li>2) Immediate Assignment with frequency hopping</li> </ul> |                                                                 |                                                                                 |  |

| Test Case Dynamic Behaviour                                                                                                                                                                              |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                          |   |                         |
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| <b>Test Case Name:</b> TC_26_10_2_3                                                                                                                                                                      |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                          |   |                         |
| <b>Group:</b> GSM_L3_MS_v4180/EGSMsignalling/                                                                                                                                                            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                          |   |                         |
| <b>Purpose:</b>                                                                                                                                                                                          |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                          |   |                         |
| 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. |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                          |   |                         |
| <b>Default:</b> OtherEventsFail                                                                                                                                                                          |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                          |   |                         |
| Nr                                                                                                                                                                                                       | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CRef                                                                                     | V | Comments                |
| 1                                                                                                                                                                                                        | pre   | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                          |   |                         |
| 2                                                                                                                                                                                                        |       | (TCV_ia_ts:= TSPX_TmSltA, TCV_Cnt := 0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                          |   |                         |
| 3                                                                                                                                                                                                        |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_ImmAss, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, 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) |                                                                                          |   |                         |
| 4                                                                                                                                                                                                        |       | +SDCCH8_A_1_nociph(TSPX_SDCCH8SubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, ChMod_sign, FreqBCCH(C_arfcnA), FreqBCCH(C_arfcnAd_4), TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                          |   |                         |
| 5                                                                                                                                                                                                        |       | +SysInfo_5bisSending(TCV_sacch8, TCV_sysinfo5bis)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                          |   |                         |
| 6                                                                                                                                                                                                        | body  | REPEAT localtree_body UNTIL [TCV_Cnt =2]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                          |   |                         |
| 7                                                                                                                                                                                                        |       | <b>localtree_body</b><br>L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)                                                   |   |                         |
| 8                                                                                                                                                                                                        |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ChReq(ChRequest_17)                                                                      |   |                         |
| 9                                                                                                                                                                                                        |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                          |   | To match ChReq retrans. |
| 10                                                                                                                                                                                                       |       | LIDL_UdatRqImmAss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ImmAss(TCV_agch, ImmAsgn_27(TCV_Rr, TCV_Fn, TCV_ia_ts, TCV_chdescr_arfcn, TimingAdv(0))) |   |                         |
| 11                                                                                                                                                                                                       |       | L?DL_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | PgRes(TCV_ch, PagingRes_01)                                                              |   |                         |
| 12                                                                                                                                                                                                       |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                          |   | Restore Normal default  |
| 13                                                                                                                                                                                                       |       | +ltree_chtype                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                          |   |                         |
| 14                                                                                                                                                                                                       |       | +ltree_send_ch_assign                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                          |   |                         |
| 15                                                                                                                                                                                                       |       | +ChanRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                          |   |                         |
| 16                                                                                                                                                                                                       |       | (TCV_Cnt := (TCV_Cnt + 1))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                          |   | Loop for K              |
| 17                                                                                                                                                                                                       |       | <b>ltree_chtype</b><br>[TSPC_Serv_TS11 OR TSPC_Serv_TS12]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                          |   |                         |
| 18                                                                                                                                                                                                       |       | (TCV_chtype := '00001'B)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                          |   | for TCH                 |
| 19                                                                                                                                                                                                       |       | [(NOT TSPC_Serv_TS11) AND(NOT TSPC_Serv_TS12)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                          |   |                         |
| 20                                                                                                                                                                                                       |       | (TCV_chtype := INT_TO_BIT((8 + BIT_TO_INT(TSPX_SDCCH8SubA)), 5))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                          |   | for SDCCH8              |
|                                                                                                                                                                                                          |       | <b>ltree_send_ch_assign</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                          |   |                         |

|    |                                                                                                                                                                                                                                                       |  |            |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|
| 21 | [TCV_Cnt = 1]                                                                                                                                                                                                                                         |  |            |
| 22 | (TCV_asscmd_ts :=<br>INT_TO_BIT(((BIT_TO_INT(TSPX_TmSlitA) + 1)<br>MOD 8), 3), TCV_Cnt1 := 1)                                                                                                                                                         |  |            |
| 23 | REPEAT ltree_assign1 UNTIL [TCV_Cnt1 = 6]                                                                                                                                                                                                             |  |            |
| 24 | [TCV_Cnt = 2]                                                                                                                                                                                                                                         |  |            |
| 25 | (TCV_Cnt1 := 1)                                                                                                                                                                                                                                       |  |            |
| 26 | REPEAT ltree_assign2 UNTIL [TCV_Cnt1 = 6]                                                                                                                                                                                                             |  |            |
|    | <b>ltree_assign1</b>                                                                                                                                                                                                                                  |  |            |
| 27 | +ltree_assign1_setup                                                                                                                                                                                                                                  |  |            |
| 28 | +ltree_chnassign1                                                                                                                                                                                                                                     |  |            |
| 29 | (TCV_AssCmd :=<br>AsgnCmd_22_Ae1(TCV_asscmd_ts,<br>TCV_chtype, TCV_flist, TCV_flistl, TCV_n))                                                                                                                                                         |  |            |
| 30 | +AssCh_complete(TCV_ch, TCV_chTch,<br>TCV_AssCmd)                                                                                                                                                                                                     |  | 1)         |
| 31 | (TCV_Cnt1 := (TCV_Cnt1 + 1))                                                                                                                                                                                                                          |  | Loop for C |
|    | <b>ltree_assign2</b>                                                                                                                                                                                                                                  |  |            |
| 32 | +ltree_assign2_setup                                                                                                                                                                                                                                  |  |            |
| 33 | +ltree_asscmdsending                                                                                                                                                                                                                                  |  |            |
| 34 | (TCV_Cnt1 := (TCV_Cnt1 + 1))                                                                                                                                                                                                                          |  |            |
|    | <b>ltree_asscmdsending</b>                                                                                                                                                                                                                            |  |            |
| 35 | [TCV_Cnt1 = 4]                                                                                                                                                                                                                                        |  |            |
| 36 | +ltree_chnassign1                                                                                                                                                                                                                                     |  | 3)         |
| 37 | (TCV_AssCmd :=<br>AsgnCmd_22_Ae2(TCV_asscmd_ts,<br>TCV_chtype, TCV_cchdescr, TCV_mae1,<br>TCV_n))                                                                                                                                                     |  |            |
| 38 | +AssCh_complete(TCV_ch, TCV_chTch,<br>TCV_AssCmd)                                                                                                                                                                                                     |  | 2)         |
| 39 | [TCV_Cnt1 <> 4]                                                                                                                                                                                                                                       |  |            |
| 40 | +ltree_chnassign2                                                                                                                                                                                                                                     |  | 4)         |
| 41 | (TCV_AssCmd :=<br>AsgnCmd_22_Ae3(TCV_asscmd_ts,<br>TCV_chtype, TCV_cchdescr, TCV_mae1,<br>TCV_mae2, TCV_n))                                                                                                                                           |  |            |
| 42 | +AssCh_complete(TCV_ch, TCV_chTch,<br>TCV_AssCmd)                                                                                                                                                                                                     |  | 2)         |
|    | <b>ltree_chnassign1</b>                                                                                                                                                                                                                               |  |            |
| 43 | [TSPC_Serv_TS11 OR TSPC_Serv_TS12]                                                                                                                                                                                                                    |  | 1)         |
| 44 | +FullRateCh_A_1_nociph(C_Ass, TCV_asscmd_ts,<br>TCV_tsc, ChMod_speech,<br>FreqTCH_ef1(TCV_mae1, TCV_flist, TCV_flistl,<br>TCV_n), FreqTCH_ef1(TCV_mae1, TCV_flist,<br>TCV_flistl, TCV_n), TimingAdv(0), C_BABR_0,<br>C_cch_1Comb, C_BPM_3)            |  |            |
| 45 | +SysInfo_5bisSending(TCV_sacchTch,<br>TCV_sysinfo5bis)                                                                                                                                                                                                |  |            |
| 46 | [(NOT TSPC_Serv_TS11) AND(NOT<br>TSPC_Serv_TS12)]                                                                                                                                                                                                     |  | 2)         |
| 47 | +SDCCH8_A_2_nociph(TSPX_SDCCH8SubA,<br>C_Ass, TCV_asscmd_ts, TCV_tsc, ChMod_sign,<br>FreqTCH_ef1(TCV_mae1, TCV_flist, TCV_flistl,<br>TCV_n), FreqTCH_ef1(TCV_mae1, TCV_flist,<br>TCV_flistl, TCV_n), TimingAdv(0), C_BABR_0,<br>C_cch_1Comb, C_BPM_3) |  |            |
| 48 | +SysInfo_5bisSending(TCV_sacchTch,<br>TCV_sysinfo5bis)                                                                                                                                                                                                |  |            |
|    | <b>ltree_chnassign2</b>                                                                                                                                                                                                                               |  |            |
| 49 | [TSPC_Serv_TS11 OR TSPC_Serv_TS12]                                                                                                                                                                                                                    |  | 1)         |
| 50 | +FullRateCh_A_1_nociph(C_Ass, TCV_asscmd_ts,<br>TCV_tsc, ChMod_speech,<br>FreqTCH_ef2(TCV_mae1, TCV_mae2, TCV_flist,<br>TCV_flistl, TCV_n), FreqTCH_ef2(TCV_mae1,<br>TCV_mae2, TCV_flist, TCV_flistl, TCV_n),                                         |  |            |

|    |                                                                                                                                                                                                                                                                              |  |    |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|
| 51 | TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3)                                                                                                                                                                                                                             |  |    |
|    | +SysInfo_5bisSending(TCV_sacchTch,<br>TCV_sysinfo5bis)                                                                                                                                                                                                                       |  |    |
| 52 | [(NOT TSPC_Serv_TS11) AND(NOT<br>TSPC_Serv_TS12)]                                                                                                                                                                                                                            |  | 2) |
| 53 | +SDCCH8_A_2_nociph(TSPX_SDCCH8SubA,<br>C_Ass, TCV_asscmd_ts, TCV_tsc, ChMod_sign,<br>FreqTCH_ef2(TCV_mae1, TCV_mae2, TCV_flist,<br>TCV_flistl, TCV_n), FreqTCH_ef2(TCV_mae1,<br>TCV_mae2, TCV_flist, TCV_flistl, TCV_n),<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3) |  |    |
| 54 | +SysInfo_5bisSending(TCV_sacchTch,<br>TCV_sysinfo5bis)                                                                                                                                                                                                                       |  |    |
|    | <b>ltree_assign1_setup</b>                                                                                                                                                                                                                                                   |  |    |
| 55 | [TCV_Cnt1 = 1]                                                                                                                                                                                                                                                               |  |    |
| 56 | (TCV_flist := C_flist_e_401, TCV_flistl:= '04'O,<br>TCV_mae1:= '00000111'B, TCV_n := 3)                                                                                                                                                                                      |  |    |
| 57 | [TCV_Cnt1 = 2]                                                                                                                                                                                                                                                               |  |    |
| 58 | (TCV_flist := C_flist_e_402, TCV_flistl:= '06'O,<br>TCV_mae1:= '00011111'B, TCV_n := 5)                                                                                                                                                                                      |  |    |
| 59 | [TCV_Cnt1 = 3]                                                                                                                                                                                                                                                               |  |    |
| 60 | (TCV_flist := C_flist_e_403, TCV_flistl:= '06'O,<br>TCV_mae1:= '00001111'B, TCV_n := 4)                                                                                                                                                                                      |  |    |
| 61 | [TCV_Cnt1 = 4]                                                                                                                                                                                                                                                               |  |    |
| 62 | (TCV_flist := C_flist_e_404, TCV_flistl:= '06'O,<br>TCV_mae1:= '00001111'B, TCV_n := 4)                                                                                                                                                                                      |  |    |
| 63 | [TCV_Cnt1 = 5]                                                                                                                                                                                                                                                               |  |    |
| 64 | (TCV_flist := C_flist_e_405, TCV_flistl:= '07'O,<br>TCV_mae1:= '00111111'B, TCV_n := 6)                                                                                                                                                                                      |  |    |
| 65 | [TCV_Cnt1 = 6]                                                                                                                                                                                                                                                               |  |    |
| 66 | (TCV_flist := C_flist_e_406, TCV_flistl:= '10'O,<br>TCV_mae1:= '00000111'B, TCV_n := 3)                                                                                                                                                                                      |  |    |
|    | <b>ltree_assign2_setup</b>                                                                                                                                                                                                                                                   |  |    |
| 67 | [TCV_Cnt1 = 1]                                                                                                                                                                                                                                                               |  |    |
| 68 | (TCV_cchdescr := C_cchd_e_407,<br>TCV_mae1:= '00011100'B,<br>TCV_mae2:= '00000000'B,<br>TCV_flist:= C_flist_e_407, TCV_flistl:= '05'O, TCV_n<br>:= 3)                                                                                                                        |  |    |
| 69 | [TCV_Cnt1 = 2]                                                                                                                                                                                                                                                               |  |    |
| 70 | (TCV_cchdescr := C_cchd_e_408,<br>TCV_mae1:= '00000000'B,<br>TCV_mae2:= '11111000'B, TCV_flist:=<br>C_flist_e_408, TCV_flistl:= '0D'O, TCV_n := 5)                                                                                                                           |  |    |
| 71 | [TCV_Cnt1 = 3]                                                                                                                                                                                                                                                               |  |    |
| 72 | (TCV_cchdescr := C_cchd_e_409,<br>TCV_mae1:= '00000000'B,<br>TCV_mae2:= '00001111'B, TCV_flist:=<br>C_flist_e_409, TCV_flistl:= '10'O, TCV_n := 4)                                                                                                                           |  |    |
| 73 | [TCV_Cnt1 = 4]                                                                                                                                                                                                                                                               |  |    |
| 74 | (TCV_cchdescr := C_cchd_e_415,<br>TCV_mae1:= '11100011'B, TCV_flist:=<br>C_flist_e_415, TCV_flistl:= '09'O, TCV_n := 5)                                                                                                                                                      |  |    |
| 75 | [TCV_Cnt1 = 5]                                                                                                                                                                                                                                                               |  |    |
| 76 | (TCV_cchdescr := C_cchd_e_411,<br>TCV_mae1:= '00000001'B,<br>TCV_mae2:= '11110000'B, TCV_flist:=<br>C_flist_e_411, TCV_flistl:= '07'O, TCV_n := 5)                                                                                                                           |  |    |
| 77 | [TCV_Cnt1 = 6]                                                                                                                                                                                                                                                               |  |    |
| 78 | (TCV_cchdescr := C_cchd_e_412,<br>TCV_mae1:= '00000000'B,<br>TCV_mae2:= '00000111'B, TCV_flist:=<br>C_flist_e_412, TCV_flistl:= '10'O, TCV_n := 3)                                                                                                                           |  |    |

**Detailed Comments:** 1) Assignment Command without Cell Channel Description IE  
 2) Assignment Command with Cell Channel Description IE  
 3) Length of mobile allocation contents is 1 octet



4) PDU contains Mobile Allocation with 2 octets

### Test Case Dynamic Behaviour

**Test Case Name:** TC\_26\_10\_2\_4\_1  
**Group:** GSM\_L3\_MS\_v4180/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

**Default:** OtherEventsFail

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef | V | Comments           |
|----|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|--------------------|
| 1  |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |                    |
| 2  |       | +BasicServiceMO(TSPX_MOBscSvcD,<br>TSPX_MOChRateD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |                    |
| 3  |       | (TCV_ia_ts:= TSPX_TmSltNotZero, TCV_ts:=<br>TSPX_TmSltNotZero, TCV_Horf:=<br>TSPX_HoRefA, TCV_Pwrlvl_ho:=<br>INT_TO_BIT(TSPX_PwrlvlA, 5), TCV_flist :=<br>C_flist_e_416, TCV_flist:= '10'O, TCV_mae1 :=<br>'00000101'B, TCV_mae2 := '00000001'B)                                                                                                                                                                                                                                                                                                                                                                                    |      |   | 1.                 |
| 4  |       | +IdleUpdated(C_E_default, C_CellA,<br>C_SCH_A, C_BCCH_A_1, C_Immass, C_S0,<br>C_SlotNU, C_SlotNU, C_SlotNU,<br>TSPX_TscDef, C_TxInt_5, C_Max_1,<br>C_NECI_0, C_ATT_0, TimingAdv(30),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1,<br>C_PLMN_1, C_LAC_1, CellOpt_01,<br>CellChDes_23A, CellChDes_202_Adman,<br>C_CellReselectHys12, C_MaxPwrLvlG,<br>C_MaxPwrLvlD, BcchFreqLst_45,<br>BcchFreqLst_Omit, BcchFreqLst_46,<br>BcchFreqLst_Omit, C_noRestablishment,<br>C_BCC, C_NCC, C_Start_Tmsi,<br>TSPX_SDCCH4SubA, TSPX_CKSNDf,<br>TSPX_RANDDef, C_arfcnA, C_arfcnAd,<br>TSPX_IMSI, C_Test_egsm, C_NCCP_2) |      |   |                    |
| 5  |       | +local_continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |                    |
|    |       | <b>local_continue</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   |                    |
| 6  |       | (TCV_sysinfo5bis_A := TCV_sysinfo5bis)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |                    |
| 7  |       | +StartCellB_egsm(C_E_suitable, C_arfcnB,<br>C_arfcnBd, C_Immass, TSPX_TmSltNotZero,<br>TCV_tsc, TimingAdv(20), C_TxInt_5, C_Max_1,<br>C_NECI_0, C_ATT_0, C_BABR_0, C_cch_1Comb,<br>C_BPM_3, C_T3212_0, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellChDes_23B, BcchFreqLst_52,<br>BcchFreqLst_47, C_noRestablishment, C_BCC,<br>C_NCC)                                                                                                                                                                                                                                                                                                        |      |   |                    |
| 8  |       | +SDCCH8_A_1_nociph(TSPX_SDCCH8SubDef,<br>C_Immass, TSPX_TmSltNotZero, TCV_tsc,<br>ChMod_sign, FreqTCH_ef2(TCV_mae1,<br>TCV_mae2, TCV_flist,TCV_flistl, TCV_n),<br>FreqTCH_ef2(TCV_mae1, TCV_mae2,<br>TCV_flist,TCV_flistl, TCV_n), TimingAdv(30),<br>C_BABR_0, C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                |      |   | TCV_ch             |
| 9  |       | +SysInfo_5bisSending(TCV_sacch8,<br>TCV_sysinfo5bis_A)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |                    |
| 10 | body  | (TCV_Cnt2 :=1, TCV_ch1 := TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |                    |
| 11 |       | +ltree_chtype                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |                    |
| 12 |       | REPEAT local_body UNTIL [TCV_Cnt2<br>=4]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   | Loop of k = 1 to 3 |
|    |       | <b>local_body</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |                    |
| 13 |       | (TCV_Cnt1 :=1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |                    |
| 14 |       | REPEAT ltree_execloopC UNTIL [TCV_Cnt1=7]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |   | Loop of c = 1 to 6 |
| 15 |       | (TCV_Cnt2 := (TCV_Cnt2 +1))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   |                    |
|    |       | <b>ltree_execloopC</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |                    |

|    |                                                                                                                    |                                                                                                                                                                                                                 |                                         |
|----|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| 16 | [(TCV_Cnt2 <>1) OR(TCV_Cnt1<>6)]                                                                                   |                                                                                                                                                                                                                 |                                         |
| 17 | +ltree_chconfig                                                                                                    |                                                                                                                                                                                                                 |                                         |
| 18 | +Est_MO_Call_init(C_CHSDCCH8_FH,<br>MoblAllc_281e2, MobilAllc_281e2, TimingAdv(30),<br>TSPX_TscDef, 1, 1)          |                                                                                                                                                                                                                 |                                         |
| 19 | +ltree_hocmd                                                                                                       |                                                                                                                                                                                                                 |                                         |
| 20 | (TCV_ch := TCV_chTch)                                                                                              |                                                                                                                                                                                                                 |                                         |
| 21 | +RR_hocomp1(TCV_n, TimingAdv(20))                                                                                  |                                                                                                                                                                                                                 |                                         |
| 22 | L?DL_DatInSetup (TCV_Mt1 :=<br>DL_DatInSetup.msg.mt)                                                               | SetupRcv(SetupInd_0<br>1)                                                                                                                                                                                       |                                         |
| 23 | +SendSeqNo_chk                                                                                                     |                                                                                                                                                                                                                 |                                         |
| 24 | +ChanRel(TCV_ch)                                                                                                   |                                                                                                                                                                                                                 |                                         |
| 25 | (TCV_Cnt1 := (TCV_Cnt1+1),<br>TCV_ch := TCV_ch1, TCV_Null<br>:=OM_CphMd(TCV_ch,<br>CphMod_02, TCV_CphKey))         |                                                                                                                                                                                                                 | SDCCH8_A_1 back to no<br>ciphering mode |
| 26 | [(TCV_Cnt2 = 1) AND (TCV_Cnt1 = 6)]                                                                                |                                                                                                                                                                                                                 | no test for k=1 and c=6                 |
| 27 | (TCV_Cnt1 := (TCV_Cnt1+1), TCV_ch := TCV_ch1)                                                                      |                                                                                                                                                                                                                 |                                         |
|    | <b>ltree_chtype</b>                                                                                                |                                                                                                                                                                                                                 |                                         |
| 28 | [TSPC_Serv_TS11 OR TSPC_Serv_TS12]                                                                                 |                                                                                                                                                                                                                 |                                         |
| 29 | (TCV_chtype := '00001'B, TCV_n := 500,<br>TCV_Cntref:= TSPX_NoOfHoAccA)                                            |                                                                                                                                                                                                                 | TCH                                     |
| 30 | [(NOT TSPC_Serv_TS11) AND(NOT<br>TSPC_Serv_TS12)]                                                                  |                                                                                                                                                                                                                 |                                         |
| 31 | (TCV_chtype := INT_TO_BIT((8 +<br>BIT_TO_INT(TSPX_SDCCH8SubDef)),5), TCV_n<br>:=750, TCV_Cntref:= TSPX_NoOfHoAccl) |                                                                                                                                                                                                                 | SDCCH8                                  |
|    | <b>ltree_hocmd</b>                                                                                                 |                                                                                                                                                                                                                 |                                         |
| 32 | [TCV_Cnt2 = 1]                                                                                                     |                                                                                                                                                                                                                 | for k = 1                               |
| 33 | LIDL_DatRqHoCmd                                                                                                    | HndOvSnd(TCV_ch,<br>HandOverCmd_26_B<br>1e(TCV_Horf,<br>TCV_ts,<br>TCV_Pwrlvl_ho,<br>TCV_chtype,<br>TCV_flist,<br>TimingAdv_omit,<br>TCV_ChMod,<br>TCV_n))                                                      |                                         |
| 34 | [TCV_Cnt2 = 2]                                                                                                     |                                                                                                                                                                                                                 | for k = 2                               |
| 35 | LIDL_DatRqHoCmd                                                                                                    | HndOvSnd(TCV_ch,<br>HandOverCmd_26_B<br>2e(TCV_Horf,<br>TCV_ts,<br>TCV_Pwrlvl_ho,<br>TCV_chtype,<br>TCV_flist, TCV_flistl,<br>TimingAdv_omit,<br>TCV_ChMod,<br>TCV_n))                                          |                                         |
| 36 | [TCV_Cnt2 = 3]                                                                                                     |                                                                                                                                                                                                                 | for k = 3                               |
| 37 | LIDL_DatRqHoCmd                                                                                                    | HndOvSnd(TCV_ch,<br>HandOverCmd_26_B<br>3e(TCV_Horf,<br>TCV_ts,<br>TCV_Pwrlvl_ho,<br>TCV_chtype,<br>TCV_cchdescr,<br>MoblAllc_20_Be2iei(T<br>CV_mae1,<br>TCV_mae2),<br>TimingAdv_omit,<br>TCV_ChMod,<br>TCV_n)) |                                         |
|    | <b>ltree_chconfig</b>                                                                                              |                                                                                                                                                                                                                 |                                         |
| 38 | +local_setHoppingPara                                                                                              |                                                                                                                                                                                                                 |                                         |
| 39 | +local_configChOfCellB                                                                                             |                                                                                                                                                                                                                 |                                         |

|    |                                                                                                                                                   |                 |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
|    | <b>local_setHoppingPara</b>                                                                                                                       |                 |
| 40 | [TCV_Cnt2 = 1]                                                                                                                                    |                 |
| 41 | [TCV_Cnt1 = 1]                                                                                                                                    |                 |
| 42 | (TCV_flist := C_flist_e_401, TCV_flistl:='05'O,<br>TCV_mae1:='00000111'B, TCV_n := 3)                                                             | k = 1 and c = 1 |
| 43 | [TCV_Cnt1 = 2]                                                                                                                                    |                 |
| 44 | (TCV_flist := C_flist_e_402, TCV_flistl:='06'O,<br>TCV_mae1:='00011111'B, TCV_n := 5)                                                             | k = 1 and c = 2 |
| 45 | [TCV_Cnt1 = 3]                                                                                                                                    |                 |
| 46 | (TCV_flist := C_flist_e_403, TCV_flistl:='06'O,<br>TCV_mae1:='00001111'B, TCV_n := 4)                                                             | k = 1 and c = 3 |
| 47 | [TCV_Cnt1 = 4]                                                                                                                                    |                 |
| 48 | (TCV_flist := C_flist_e_404, TCV_flistl:='06'O,<br>TCV_mae1:='00001111'B, TCV_n := 4)                                                             | k = 1 and c = 4 |
| 49 | [TCV_Cnt1 = 5]                                                                                                                                    |                 |
| 50 | (TCV_flist := C_flist_e_405, TCV_flistl:='07'O,<br>TCV_mae1:='00111111'B, TCV_n := 6)                                                             | k = 1 and c = 5 |
| 51 | [TCV_Cnt2 = 2]                                                                                                                                    |                 |
| 52 | [TCV_Cnt1 = 1]                                                                                                                                    |                 |
| 53 | (TCV_flist := C_flist_e_401, TCV_flistl:='05'O,<br>TCV_mae1:='00000111'B, TCV_n := 3)                                                             | k = 2 and c = 1 |
| 54 | [TCV_Cnt1 = 2]                                                                                                                                    |                 |
| 55 | (TCV_flist := C_flist_e_402, TCV_flistl:='06'O,<br>TCV_mae1:='00011111'B, TCV_n := 5)                                                             | k = 2 and c = 2 |
| 56 | [TCV_Cnt1 = 3]                                                                                                                                    |                 |
| 57 | (TCV_flist := C_flist_e_403, TCV_flistl:='06'O,<br>TCV_mae1:='00001111'B, TCV_n := 4)                                                             | k = 2 and c = 3 |
| 58 | [TCV_Cnt1 = 4]                                                                                                                                    |                 |
| 59 | (TCV_flist := C_flist_e_404, TCV_flistl:='06'O,<br>TCV_mae1:='00001111'B, TCV_n := 4)                                                             | k = 2 and c = 4 |
| 60 | [TCV_Cnt1 = 5]                                                                                                                                    |                 |
| 61 | (TCV_flist := C_flist_e_405, TCV_flistl:='07'O,<br>TCV_mae1:='00111111'B, TCV_n := 6)                                                             | k = 2 and c = 5 |
| 62 | [TCV_Cnt1 = 6]                                                                                                                                    |                 |
| 63 | (TCV_flist := C_flist_e_406, TCV_flistl:='10'O,<br>TCV_mae1:='00000111'B, TCV_n := 3)                                                             | k = 2 and c = 6 |
| 64 | [TCV_Cnt2 = 3]                                                                                                                                    |                 |
| 65 | [TCV_Cnt1 = 1]                                                                                                                                    |                 |
| 66 | (TCV_cchdescr := C_cchd_e_407,<br>TCV_mae2:='00011100'B,<br>TCV_mae1:='00000000'B,<br>TCV_flist:=C_flist_e_407, TCV_flistl:='05'O,<br>TCV_n := 3) | k = 3 and c = 1 |
| 67 | [TCV_Cnt1 = 2]                                                                                                                                    |                 |
| 68 | (TCV_cchdescr := C_cchd_e_408,<br>TCV_mae2:='00000000'B,<br>TCV_mae1:='11111000'B, TCV_flist:=<br>C_flist_e_408, TCV_flistl:='0D'O, TCV_n := 5)   | k = 3 and c = 2 |
| 69 | [TCV_Cnt1 = 3]                                                                                                                                    |                 |
| 70 | (TCV_cchdescr := C_cchd_e_409,<br>TCV_mae2:='00000000'B,<br>TCV_mae1:='00001111'B, TCV_flist:=<br>C_flist_e_409, TCV_flistl:='10'O, TCV_n := 3)   | k = 3 and c = 3 |
| 71 | [TCV_Cnt1 = 4]                                                                                                                                    |                 |
| 72 | (TCV_cchdescr := C_cchd_e_410,<br>TCV_mae2:='00000011'B,<br>TCV_mae1:='00000011'B, TCV_flist:=<br>C_flist_e_410, TCV_flistl:='0A'O, TCV_n := 4)   | k = 3 and c = 4 |
| 73 | [TCV_Cnt1 = 5]                                                                                                                                    |                 |
| 74 | (TCV_cchdescr := C_cchd_e_411,<br>TCV_mae1:='00000001'B,<br>TCV_mae2:='11110000'B, TCV_flist:=<br>C_flist_e_411, TCV_flistl:='07'O, TCV_n := 4)   | k = 3 and c = 5 |
| 75 | [TCV_Cnt1 = 6]                                                                                                                                    |                 |
| 76 | (TCV_cchdescr := C_cchd_e_412,<br>TCV_mae1:='00000000'B,<br>TCV_mae2:='00000111'B, TCV_flist:=<br>C_flist_e_412, TCV_flistl:='10'O, TCV_n := 3)   | k = 3 and c = 6 |
|    | <b>local_configChOfCellB</b>                                                                                                                      |                 |

|                           |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                          |    |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 77                        | (TCV_cellid:=C_CellB)                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                          |    |
| 78                        | [TSPC_Serv_TS11 OR TSPC_Serv_TS12]                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                          | 2. |
| 79                        | (TCV_ChMod := ChMod_speech)                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                          |    |
| 80                        | [TCV_Cnt2 <> 3]                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                          |    |
| 81                        | +FullRateCh_B_1(C_Asynho, TCV_ts,<br>TSPX_TscDef, TCV_ChMod,<br>FreqTCH_ef1(TCV_mae1, TCV_flist,<br>TCV_flistl, TCV_n),<br>FreqTCH_ef1(TCV_mae1, TCV_flist,<br>TCV_flistl, TCV_n), TimingAdv(20),<br>C_BABR_0, C_cch_1nonComb, C_BPM_3)                                    |                                                                                                                                                                                                                                                                                                          |    |
| 82                        | [TCV_Cnt2 = 3]                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                          |    |
| 83                        | +FullRateCh_B_1(C_Asynho, TCV_ts,<br>TSPX_TscDef, TCV_ChMod,<br>FreqTCH_ef2(TCV_mae1, TCV_mae2,<br>TCV_flist, TCV_flistl, TCV_n),<br>FreqTCH_ef2(TCV_mae1, TCV_mae2,<br>TCV_flist, TCV_flistl, TCV_n), TimingAdv(20),<br>C_BABR_0, C_cch_1nonComb, C_BPM_3)                |                                                                                                                                                                                                                                                                                                          |    |
| 84                        | [(NOT TSPC_Serv_TS11) AND(NOT<br>TSPC_Serv_TS12)]                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                          | 3. |
| 85                        | (TCV_ChMod := ChMod_sign)                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                          |    |
| 86                        | [TCV_Cnt2 <> 3]                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                          |    |
| 87                        | +SDCCH8_B_1(TSPX_SDCCH8SubDef,<br>C_Asynho, TCV_ts, TSPX_TscDef,<br>TCV_ChMod, FreqTCH_ef1(TCV_mae1,<br>TCV_flist, TCV_flistl, TCV_n),<br>FreqTCH_ef1(TCV_mae1, TCV_flist,<br>TCV_flistl, TCV_n), TimingAdv(20),<br>C_BABR_0, C_cch_1nonComb, C_BPM_3)                     |                                                                                                                                                                                                                                                                                                          |    |
| 88                        | [TCV_Cnt2 = 3]                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                          |    |
| 89                        | +SDCCH8_B_1(TSPX_SDCCH8SubDef,<br>C_Asynho, TCV_ts, TSPX_TscDef,<br>TCV_ChMod, FreqTCH_ef2(TCV_mae1,<br>TCV_mae2, TCV_flist, TCV_flistl, TCV_n),<br>FreqTCH_ef2(TCV_mae1, TCV_mae2,<br>TCV_flist, TCV_flistl, TCV_n), TimingAdv(20),<br>C_BABR_0, C_cch_1nonComb, C_BPM_3) |                                                                                                                                                                                                                                                                                                          |    |
| <b>Detailed Comments:</b> |                                                                                                                                                                                                                                                                            | <ol style="list-style-type: none"> <li>1. Values TCV_flist , TCV_mae1 and TCV_mae2 are initialized for hopping frequencies : 20, 66, 78 in cell A.</li> <li>2. for HO from SDCCH8 no FH in cell A to TCH/F FH in cell B</li> <li>3. for HO from SDCCH8 no FH in cell A to SDCCH8 FH in cell B</li> </ol> |    |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                            |   |          |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---|----------|
| <b>Test Case Name:</b>      |       | TC_26_10_2_4_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                            |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/EGSMsignalling/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                            |   |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                            |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                            |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CRef                                                                                                                       | V | 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_SO, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECL_0, C_ATT_0, TimingAdv(0), C_BABR_0, 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_CKSNDf, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                                                                                                            |   |          |
| 5                           |       | +StartCellB(C_E_suitable, C_arfcnB, C_arfcnBd, C_Immass, TCV_slot, TCV_tsc, TimingAdv(0), C_TxInt_5, C_Max_1, C_NECL_0, C_ATT_0, C_BABR_0, C_cch_1nonComb, 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                           |       | +FullRateCh_A_1(C_Ass, TCV_asscmd_ts, TCV_tsc, ChMod_speech, FreqTCH_omit, FreqTCH_omit, TSPX_TCHcarrierA_ho, TSPX_TCHcarrierA_hod, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                            |   |          |
| 7                           |       | +ltree_u10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                            |   |          |
| 8                           |       | +ltree_body                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                            |   |          |
| 9                           |       | <b>ltree_body</b><br>(TCV_flist := C_flist_e_401, TCV_flistl := '05'O, TCV_mae1:= '00000111'B, TCV_n := 3, TCV_ch := TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                            |   |          |
| 10                          |       | +FullRateCh_B_1(C_Rcv, TCV_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_1nonComb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                            |   |          |
| 11                          |       | (TCV_L1Head0 := OM_GetL1Hd(TCV_ch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                            |   |          |
| 12                          |       | LIDL_DatRqHoCmd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | HndOvSnd(TCV_ch, HandOverCmd_22_B1e(TCV_Horf, TCV_ts, TCV_Pwrlvl_ho, TCV_chtype, TCV_flist, TCV_flistl, TCV_ChMod, TCV_n)) |   |          |
| 13                          |       | START T_dly(3000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                            |   |          |
| 14                          |       | (TCV_Cnt:=0)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                            |   |          |
| 15                          |       | REPEAT ltree_hoacc UNTIL [TCV_Cnt = TCV_Cntref]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                            |   |          |

|                           |                                                                                                                                                              |                                                                                                                                                                                                                                                                  |     |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 16                        | L?DL_DatInHofl                                                                                                                                               | HndOvFIRcv(TCV_ch,<br>HandOvFail_02)                                                                                                                                                                                                                             |     |
| 17                        | (TCV_L1Head :=<br>OM_GetL1Hd(TCV_ch))                                                                                                                        |                                                                                                                                                                                                                                                                  |     |
| 18                        | [TCV_L1Head.mspwrlvl =<br>TCV_L1Head0.mspwrlvl]                                                                                                              |                                                                                                                                                                                                                                                                  | (P) |
| 19                        | +ChanRel_end(TCV_ch)                                                                                                                                         |                                                                                                                                                                                                                                                                  |     |
| 20                        | [TCV_L1Head.mspwrlvl <><br>TCV_L1Head0.mspwrlvl]                                                                                                             |                                                                                                                                                                                                                                                                  |     |
| 21                        | +ChanRel_end(TCV_ch)                                                                                                                                         |                                                                                                                                                                                                                                                                  |     |
| 22                        | ?TIMEOUT T_dly                                                                                                                                               |                                                                                                                                                                                                                                                                  | (F) |
| 23                        | +ChanRel(TCV_chTch)                                                                                                                                          |                                                                                                                                                                                                                                                                  |     |
|                           | <b>Itree_hoacc</b>                                                                                                                                           |                                                                                                                                                                                                                                                                  |     |
| 24                        | L?DL_RaInHoacc                                                                                                                                               | HndOvAccRcv(TCV_c<br>hTch,<br>HandOverAcc_02(TC<br>V_Horf))                                                                                                                                                                                                      |     |
| 25                        | (TCV_Cnt := TCV_Cnt + 1)                                                                                                                                     |                                                                                                                                                                                                                                                                  |     |
|                           | <b>Itree_u10</b>                                                                                                                                             |                                                                                                                                                                                                                                                                  |     |
| 26                        | +RRmtcallprepare(TimingAdv(0))                                                                                                                               |                                                                                                                                                                                                                                                                  |     |
| 27                        | L!DL_DatRqSetup                                                                                                                                              | SetupSnd(TCV_ch,<br>TCV_Setup_mt)                                                                                                                                                                                                                                |     |
| 28                        | L?DL_DatInCallCo                                                                                                                                             | CallCfm(CallConfirm_<br>20(TI_01))                                                                                                                                                                                                                               | 1.  |
| 29                        | L?DL_DatInConn                                                                                                                                               | ConnRcv(Connect_01<br>(TI_01))                                                                                                                                                                                                                                   |     |
| 30                        | +localtree                                                                                                                                                   |                                                                                                                                                                                                                                                                  |     |
| 31                        | L?DL_DatInAlert                                                                                                                                              | AlertRcv(AlertingInd_<br>01( TI_01))                                                                                                                                                                                                                             |     |
| 32                        | (TCV_Null := OO_HookOff())                                                                                                                                   |                                                                                                                                                                                                                                                                  |     |
| 33                        | L?DL_DatInConn                                                                                                                                               | ConnRcv(Connect_01<br>(TI_01))                                                                                                                                                                                                                                   |     |
| 34                        | +localtree                                                                                                                                                   |                                                                                                                                                                                                                                                                  |     |
|                           | <b>localtree</b>                                                                                                                                             |                                                                                                                                                                                                                                                                  |     |
| 35                        | (TCV_AssCmd := AsgnCmd_nfh('00001'B,<br>TCV_asscmd_ts, TSPX_TscDef, 10,<br>C_arfcnEgsm_asscmd, CellChDes_omit,<br>ChMod_omit, StartingTm_omit, CphMod_omit)) |                                                                                                                                                                                                                                                                  |     |
| 36                        | +AssCh_complete(TCV_ch, TCV_chTch,<br>TCV_AssCmd)                                                                                                            |                                                                                                                                                                                                                                                                  | 2.  |
| 37                        | L!DL_DatRqConnAck                                                                                                                                            | ConnAckSnd(TCV_ch<br>Tch,<br>ConnectAck_01(TI_0<br>2))                                                                                                                                                                                                           |     |
| <b>Detailed Comments:</b> |                                                                                                                                                              | 1. If the MS supports the bearer capabilities, which are give in Setup message, it has to accept them. Therefor, they are no bearer capabilities expected in Call Confirm message.<br>2. TCH/F or SDCCH/4 with non hopping in selected cell.<br>Power level = 10 |     |

| Test Case Dynamic Behaviour       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                        |     |                         |
|-----------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-----|-------------------------|
| <b>Test Case Name:</b>            |       | TC_26_10_2_5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        |     |                         |
| <b>Group:</b>                     |       | GSM_L3_MS_v4180/EGSMsignalling/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                        |     |                         |
| <b>Purpose:</b>                   |       | <p>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.</p> <p>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.</p>                                                                                                                                                                                                          |                                        |     |                         |
| <b>Default:</b>                   |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                        |     |                         |
| Nr                                | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CRef                                   | V   | Comments                |
| 1                                 | pre   | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                        |     |                         |
| 2                                 |       | (TCV_ia_ts:= TSPX_TmSlitNotZero)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        |     |                         |
| 3                                 |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_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_22, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, 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) |                                        |     |                         |
| 4                                 |       | +local_ChConfig                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                        |     |                         |
| 5                                 |       | (TCV_Cnt1 := 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                        |     |                         |
| 6                                 | body  | REPEAT localtree_body UNTIL [TCV_Cnt1 = 7]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |     |                         |
| <b>localtree_body</b>             |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                        |     |                         |
| 7                                 |       | L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01) |     |                         |
| 8                                 |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ChReq(ChRequest_1 7)                   |     |                         |
| 9                                 |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        |     | To match ChReq retrans. |
| 10                                |       | +ltree_send_immass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                        |     |                         |
| 11                                |       | L?DL_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PgRes(TCV_ch, PagingRes_01)            |     |                         |
| 12                                |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                        |     | Restore Normal default  |
| 13                                |       | +ltree_setFreqRedefPara                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                        |     |                         |
| 14                                |       | +ltree_LowerTestorManage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                        |     |                         |
| 15                                |       | +ltree_sendFreqRedef                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |     |                         |
| 16                                |       | +ltree_checkchnafterfreqred                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                        |     |                         |
| 17                                |       | +ChanRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        |     |                         |
| 18                                |       | (TCV_Cnt1 := (TCV_Cnt1 +1))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                        |     |                         |
| <b>ltree_checkchnafterfreqred</b> |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                        |     |                         |
| 19                                |       | [(TCV_Cnt1 = 4) OR (TCV_Cnt1 = 6)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                        |     | Ma1)                    |
| 20                                |       | (TCV_Res := OM_FHCHK(TCV_chTch, CellChDes_20_Be(TCV_cchdescr), MobilAllc_20_Be1(TCV_mae1), TCV_chd1, 100, TCV_Fn))                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                        |     |                         |
| 21                                |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                        | (F) |                         |
| 22                                |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                        | (P) |                         |
| 23                                |       | [(TCV_Cnt1 <> 4) AND(TCV_Cnt1 <> 6)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                        |     | Ma2)                    |
| 24                                |       | (TCV_Res := OM_FHCHK(TCV_chTch, CellChDes_20_Be(TCV_cchdescr), MobilAllc_20_Be2(TCV_mae1, TCV_mae2), TCV_chd1, 100, TCV_Fn))                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        |     |                         |
| 25                                |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                        | (F) |                         |
| 26                                |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                        | (P) |                         |
| <b>ltree_LowerTestorManage</b>    |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                        |     |                         |



|    |                                                                                                                                                                                                                                                            |                                                                                                                           |      |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------|
| 27 | (TCV_Fn := OM_ComingFn(TCV_ch), TCV_chd1 := ChDescrp_fh(TCV_chtype, TSPX_TmSlitNotZero1, TSPX_TscDef, INT_TO_BIT((TSPX_MAIO MOD TCV_n), 6), INT_TO_BIT(TSPX_HSN, 6)), TCV_Strt := OC_StartTime(TCV_Fn, 100, 0), TCV_Null := OM_SendNextOn(TCV_ch, TCV_Fn)) |                                                                                                                           |      |
| 28 | [(TCV_Cnt1 = 4) OR (TCV_Cnt1=6)]                                                                                                                                                                                                                           |                                                                                                                           | Ma1) |
| 29 | (TCV_Null := OM_FreqDef(TCV_Strt, MobilAllc_20_Be1(TCV_mae1), TCV_ch, TCV_chd1, CellChDes_20_Be(TCV_cchdescr), TCV_Fn))                                                                                                                                    |                                                                                                                           |      |
| 30 | [(TCV_Cnt1 <>4) AND(TCV_Cnt1<>6)]                                                                                                                                                                                                                          |                                                                                                                           | Ma2) |
| 31 | (TCV_Null := OM_FreqDef(TCV_Strt, MobilAllc_20_Be2(TCV_mae1, TCV_mae2), TCV_ch, TCV_chd1, CellChDes_20_Be(TCV_cchdescr), TCV_Fn))                                                                                                                          |                                                                                                                           |      |
|    | <b>Itree_sendFreqRedef</b>                                                                                                                                                                                                                                 |                                                                                                                           |      |
| 32 | [TCV_Cnt1 <> 6]                                                                                                                                                                                                                                            |                                                                                                                           |      |
| 33 | [TCV_Cnt1 = 4]                                                                                                                                                                                                                                             |                                                                                                                           | Ma1) |
| 34 | LIDL_DatRqFrqre                                                                                                                                                                                                                                            | FrqRedfSnd(TCV_ch, FreqRedef_20(TSPX_TmSlitNotZero1, TCV_chtype, TCV_cchdescr, TCV_mae1, TCV_Strt, TCV_n))                |      |
| 35 | [TCV_Cnt1 <> 4]                                                                                                                                                                                                                                            |                                                                                                                           | Ma2) |
| 36 | LIDL_DatRqFrqre                                                                                                                                                                                                                                            | FrqRedfSnd(TCV_ch, FreqRedef_22(TSPX_TmSlitNotZero1, TCV_chtype, TCV_cchdescr, TCV_mae1, TCV_mae2, TCV_Strt, TCV_n))      |      |
| 37 | [TCV_Cnt1 = 6]                                                                                                                                                                                                                                             |                                                                                                                           | Ma1) |
| 38 | LIDL_DatRqFrqre                                                                                                                                                                                                                                            | FrqRedfSnd(TCV_ch, FreqRedef_21(TSPX_TmSlitNotZero1, TCV_chtype, TCV_mae1, TCV_Strt, TCV_n))                              |      |
|    | <b>Itree_send_immass</b>                                                                                                                                                                                                                                   |                                                                                                                           |      |
| 39 | [TSPC_Serv_TS11 OR TSPC_Serv_TS12]                                                                                                                                                                                                                         |                                                                                                                           |      |
| 40 | LIDL_UdatRqImmss                                                                                                                                                                                                                                           | ImmAss(TCV_agch, ImmAsgn_nfh(TCV_Rr, TCV_Fn, '00001'B, TCV_ia_ts, TSPX_TscDef, TimingAdv(30), C_arfcnC, C_normal_paging)) |      |
| 41 | [(NOT TSPC_Serv_TS11) AND(NOT TSPC_Serv_TS12)]                                                                                                                                                                                                             |                                                                                                                           |      |
| 42 | LIDL_UdatRqImmss                                                                                                                                                                                                                                           | ImmAss(TCV_agch, ImmAsgn_27(TCV_Rr, TCV_Fn, TCV_ia_ts, C_arfcnC, TimingAdv(30)))                                          |      |
|    | <b>Itree_setFreqRedefPara</b>                                                                                                                                                                                                                              |                                                                                                                           |      |
| 43 | [TCV_Cnt1 = 1]                                                                                                                                                                                                                                             |                                                                                                                           |      |
| 44 | (TCV_cchdescr := C_cchd_e_407, TCV_mae1:='00011100'B, TCV_mae2:='00000000'B, TCV_n := 3)                                                                                                                                                                   |                                                                                                                           |      |
| 45 | [TCV_Cnt1 = 2]                                                                                                                                                                                                                                             |                                                                                                                           |      |
| 46 | (TCV_cchdescr := C_cchd_e_408, TCV_mae1:='00000000'B, TCV_mae2:='11110000'B, TCV_n := 4)                                                                                                                                                                   |                                                                                                                           |      |
| 47 | [TCV_Cnt1 = 3]                                                                                                                                                                                                                                             |                                                                                                                           |      |

|                           |                                                                                                                                                                                 |                                      |  |  |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--|--|
| 48                        | (TCV_cchdescr := C_cchd_e_409,<br>TCV_mae1:=‘0000000’B,<br>TCV_mae2:=‘00001111’B, TCV_n := 4)                                                                                   |                                      |  |  |
| 49                        | [TCV_Cnt1 = 4]                                                                                                                                                                  |                                      |  |  |
| 50                        | (TCV_cchdescr := C_cchd_e_415,<br>TCV_mae1:=‘11000110’B, TCV_n := 4)                                                                                                            |                                      |  |  |
| 51                        | [TCV_Cnt1 = 5]                                                                                                                                                                  |                                      |  |  |
| 52                        | (TCV_cchdescr := C_cchd_e_411,<br>TCV_mae1:=‘00000001’B,<br>TCV_mae2:=‘11110000’B, TCV_n := 5)                                                                                  |                                      |  |  |
| 53                        | [TCV_Cnt1 = 6]                                                                                                                                                                  |                                      |  |  |
| 54                        | (TCV_cchdescr := C_cchd_e_414,<br>TCV_mae1:=‘00001110’B, TCV_n := 4)                                                                                                            |                                      |  |  |
|                           | <b>local_ChConfig</b>                                                                                                                                                           |                                      |  |  |
| 55                        | [TSPC_Serv_TS11 OR TSPC_Serv_TS12]                                                                                                                                              |                                      |  |  |
| 56                        | +FullRateCh_A_1_nociph(C_Immass, TCV_ia_ts,<br>TSPX_TscDef, ChMod_sign, FreqTCH(C_arfcnC),<br>FreqTCH(C_arfcnC), TimingAdv(30), C_BABR_0,<br>C_cch_1Comb, C_BPM_3)              |                                      |  |  |
| 57                        | (TCV_ch := TCV_chTch)                                                                                                                                                           |                                      |  |  |
| 58                        | +SysInfo_5bisSending(TCV_sacchTch,<br>TCV_sysinfo5bis)                                                                                                                          |                                      |  |  |
| 59                        | [(NOT TSPC_Serv_TS11) AND(NOT<br>TSPC_Serv_TS12)]                                                                                                                               |                                      |  |  |
| 60                        | (TCV_chtype := INT_TO_BIT((8 +<br>BIT_TO_INT(TSPX_SDCCH8SubDef)),5))                                                                                                            |                                      |  |  |
| 61                        | +SDCCH8_A_1_nociph(TSPX_SDCCH8SubDef,<br>C_Immass, TCV_slot, TCV_tsc, ChMod_sign,<br>FreqTCH(C_arfcnC), FreqTCH(C_arfcnC),<br>TimingAdv(30), C_BABR_0, C_cch_1Comb,<br>C_BPM_3) |                                      |  |  |
| 62                        | +SysInfo_5bisSending(TCV_sacch8,<br>TCV_sysinfo5bis)                                                                                                                            |                                      |  |  |
| <b>Detailed Comments:</b> |                                                                                                                                                                                 | Ma1) Mobile Allocation with 1 octets |  |  |
|                           |                                                                                                                                                                                 | Ma2) Mobile Allocation with 2 octets |  |  |

### Test Case Dynamic Behaviour

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_26_10_3_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Group:</b>          | GSM_L3_MS_v4180/EGSMsignalling/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Purpose:</b>        | <p>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.</p> <p>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.</p> <p>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.</p> <p>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.)</p> |
| <b>Default:</b>        | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                                                | V | Comments                |
|----|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---|-------------------------|
| 1  |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                     |   |                         |
| 2  |       | (TCV_chdescr_arfcn:= C_arfcnEgsm_iacmd,<br>TCV_ia_ts:= TSPX_TmSltG, TCV_asscmd_ts:=<br>TSPX_TmSltC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                     |   |                         |
| 3  |       | +ltree_SelectTeleservice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                     |   |                         |
| 4  |       | +IdleUpdated(C_E_default, C_CellA,<br>C_SCH_A, C_BCCH_A_1, C_Immass, C_S0,<br>C_SlotNU, C_SlotNU, C_SlotNU, C_BCC,<br>C_TxInt_5, C_Max_1, C_NECL_0, C_ATT_0,<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3, C_T3212_0, C_ci_cellA,<br>C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01,<br>CellChDes_22, CellChDes_Omit,<br>C_CellReselectHys12, C_MaxPwrLvIG,<br>C_MaxPwrLvID, BcchFreqLst_01,<br>BcchFreqLst_Omit, BcchFreqLst_46,<br>BcchFreqLst_Omit, C_noReestablishment,<br>C_BCC, C_NCC, C_Start_Tmsi,<br>TSPX_SDCCH4SubDef, TSPX_CKSNDf,<br>TSPX_RANDDf, C_arfcnA, C_arfcnAd,<br>TSPX_IMSI, C_Test_egsm, C_NCCP_2) |                                                                                     |   |                         |
| 5  |       | +SDCCH8_A_1(TSPX_SDCCH8SubDef,<br>C_Immass, TCV_ia_ts, TCV_tsc,<br>ChMod_sign, FreqTCH_omit, FreqTCH_omit,<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                     |   |                         |
| 6  |       | +SysInfo_5bisSending(TCV_sacch8,<br>TCV_sysinfo5bis)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                     |   |                         |
| 7  |       | +FullRateCh_A_1(C_Ass,<br>TCV_asscmd_ts, TCV_tsc,<br>ChMod_speech, FreqTCH_omit,<br>FreqTCH_omit, TSPX_TCHcarrierA_ho,<br>TSPX_TCHcarrierA_hod, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                     |   |                         |
| 8  |       | +SysInfo_5bisSending(TCV_sacchTch,<br>TCV_sysinfo5bis)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                     |   |                         |
| 9  |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                     |   |                         |
| 10 |       | +local_continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                     |   |                         |
|    |       | <b>local_continue</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     |   |                         |
| 11 |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ChReq(ChRequest_0<br>4)                                                             |   |                         |
| 12 |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                     |   | To match ChReq retrans. |
| 13 |       | LIDL_UdatRqImmass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ImmAss(TCV_agch,<br>ImmAsgn_27(TCV_Rr<br>, TCV_Fn, TCV_ia_ts,<br>TCV_chdescr_arfcn, |   |                         |

|                           |                                                                                                                                                             |                                                        |                        |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------|
| 14                        | L?DL_EstInCmsRq                                                                                                                                             | TimingAdv(0))<br>CMSerReq(CMServic<br>eReq_01)         |                        |
| 15                        | ACTIVATE(OtherEventsFail)                                                                                                                                   |                                                        | Restore Normal default |
| 16                        | +Authentication(TCV_ch, TCV_cksn,<br>TSPX_RANDDef)                                                                                                          |                                                        |                        |
| 17                        | +Cipherring_on(TCV_ch)                                                                                                                                      |                                                        |                        |
| 18                        | +ltree_ccest                                                                                                                                                |                                                        |                        |
|                           | <b>ltree_SelectTeleservice</b>                                                                                                                              |                                                        |                        |
| 19                        | [TSPC_Serv_TS11]                                                                                                                                            |                                                        |                        |
| 20                        | +BasicServiceMO(C_Telephony, C_Full)                                                                                                                        |                                                        |                        |
| 21                        | [TSPC_Serv_TS61]                                                                                                                                            |                                                        |                        |
| 22                        | +BasicServiceMO(C_AltSpchFax, C_Full)                                                                                                                       |                                                        |                        |
| 23                        | [TSPC_Serv_TS62]                                                                                                                                            |                                                        |                        |
| 24                        | +BasicServiceMO(C_AutoFax, C_Full)                                                                                                                          |                                                        |                        |
|                           | <b>ltree_ccest</b>                                                                                                                                          |                                                        |                        |
| 25                        | +RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup,<br>TCV_Ecall)                                                                                                   |                                                        |                        |
| 26                        | L!DL_DatRqCallProc                                                                                                                                          | CallProc(TCV_ch,<br>TCV_CallProc)                      |                        |
| 27                        | LIDL_DatRqAlert                                                                                                                                             | AlertSnd(TCV_ch,<br>Alerting_01(TCV_TI))               |                        |
| 28                        | (TCV_AssCmd := AsgnCmd_nfh('00001'B,<br>TCV_asscmd_ts, TSPX_TscDef, 9,<br>C_arfcnEgsm_asscmd, CellChDes_omit,<br>ChMod_omit, StartingTm_omit, CphMod_omit)) |                                                        |                        |
| 29                        | +AssCh_complete(TCV_ch, TCV_chTch,<br>TCV_AssCmd)                                                                                                           |                                                        |                        |
| 30                        | L!DL_DatRqConn                                                                                                                                              | ConnSnd(TCV_chTch<br>,<br>Connect_02(TCV_TI))          |                        |
| 31                        | L?DL_DatInConnAck                                                                                                                                           | ConnAckRcv(Connect<br>Ack_02( TCV_TI0))                |                        |
| 32                        | (TCV_Null := OO_TermCall())                                                                                                                                 |                                                        |                        |
| 33                        | L?DL_DatInDisc                                                                                                                                              | DiscRcv(TCV_chTch,<br>DisconnR(TCV_TI0,<br>Cause_Def)) |                        |
| 34                        | LIDL_DatRqRel                                                                                                                                               | ReleaseSnd(TCV_ch<br>Tch,<br>Release_08(TCV_TI))       |                        |
| 35                        | L?DL_DatInRelCmp                                                                                                                                            | RelComRcv(Release<br>Cmp_03(TCV_TI0))                  |                        |
| 36                        | +PostMainLinkRel(TCV_chTch)                                                                                                                                 |                                                        |                        |
| <b>Detailed Comments:</b> |                                                                                                                                                             |                                                        |                        |

### Test Case Dynamic Behaviour

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_26_10_3_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Group:</b>          | GSM_L3_MS_v4180/EGSMSSignalling/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Purpose:</b>        | <p>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".</p> <p>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".</p> <p>3) To verify that after receipt of a CM SERVICE ACCEPT message from the SS, the MS sends an EMERGENCY SETUP message.</p> <p>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.</p> <p>5) To verify subsequent correct performance of a connect procedure.</p> <p>6) To verify that subsequently the MS has throughout connected the TCH in both directions.</p> <p>7) To verify that the call is cleared correctly.</p> |
| <b>Default:</b>        | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | CRef                                                                                                  | V   | Comments                |
|----|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----|-------------------------|
| 1  |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                       |     |                         |
| 2  |       | +BasicServiceMO(C_EmgCall,<br>TSPX_EmgCallRate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                       |     |                         |
| 3  |       | (TCV_ia_ts:= TSPX_TmSlG)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                       |     |                         |
| 4  |       | +IdleUpdated(C_E_default, C_CellA,<br>C_SCH_A, C_BCCH_A_1, C_Immass, C_S0,<br>C_SlotNU, C_SlotNU, C_SlotNU, C_BCC,<br>C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0,<br>TimingAdv(30), C_BABR_0, C_cch_1nonComb,<br>C_BPM_3, C_T3212_1, C_ci_cellA,<br>C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01,<br>CellChDes_20_Aman, CellChDes_Omit,<br>C_CellReselectHys12, C_MaxPwrLvlG,<br>C_MaxPwrLvlD, BcchFreqLst_01,<br>BcchFreqLst_Omit, BcchFreqLst_Omit,<br>BcchFreqLst_Omit, C_noReestablishment,<br>C_BCC, C_NCC, C_Start_Tmsi,<br>TSPX_SDCCH4SubDef, TSPX_CKSNDf,<br>TSPX_RANDDef, C_arfcnA, C_arfcnAd,<br>TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                                                                                       |     |                         |
| 5  |       | +SDCCH8_A_1_nociph(TSPX_SDCCH8Sub<br>Def, C_Ass, TCV_ia_ts, TCV_tsc,<br>ChMod_sign, FreqSDCCH8_e,<br>FreqSDCCH8_e, TimingAdv(0), C_BABR_0,<br>C_cch_1nonComb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                       |     | 1.                      |
| 6  |       | +local_TrafficChConf                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                       |     |                         |
| 7  | body  | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                       |     |                         |
| 8  |       | L?DL_RaInChRq (TCV_Rr :=<br>DL_RaInChRq. msg.ecau_rrf,<br>TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ChReq(ChRequest_1<br>6)                                                                               | (P) | 2.                      |
| 9  |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                       |     | To match ChReq retrans. |
| 10 |       | L!DL_UdatRqImmass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ImmAss(TCV_agch,<br>ImmAsgn_27(TCV_Rr<br>, TCV_Fn, TCV_ia_ts,<br>TCV_chdescr_arfcn,<br>TimingAdv(0))) |     |                         |
| 11 |       | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CMSerReq(CMServic<br>eReq_06)                                                                         | (P) | 3.                      |
| 12 |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                       |     | Restore Normal default  |
| 13 |       | +local_continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                       |     |                         |
|    |       | <b>local_continue</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                       |     |                         |
| 14 |       | L!DL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CMSerAcp(TCV_ch,<br>CMSerAcp_01)                                                                      |     |                         |
| 15 |       | +RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup,<br>TCV_Ecall)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                       |     |                         |

|    |                                                                                                                                                                                                      |                                                                                       |     |    |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----|----|
| 16 | LIDL_DatRqCallProc                                                                                                                                                                                   | CallProc(TCV_ch,<br>TCV_CallProc)                                                     |     |    |
| 17 | LIDL_DatRqAlert                                                                                                                                                                                      | AlertSnd(TCV_ch,<br>Alerting_01(TCV_TI))                                              |     |    |
| 18 | +AssCmdGen(TCV_cellid, TCV_ChRate,<br>TSPX_TmSlitDef, TSPX_TscDef,<br>TSPX_TCHHSubDef)                                                                                                               |                                                                                       |     |    |
| 19 | (TCV_AssCmd.ch1d_at.arfcn:=<br>INT_TO_BIT(C_arfcnEgsm,10))                                                                                                                                           |                                                                                       |     |    |
| 20 | +AssCh_complete(TCV_ch, TCV_chTch,<br>TCV_AssCmd)                                                                                                                                                    |                                                                                       |     |    |
| 21 | +local_continue1                                                                                                                                                                                     |                                                                                       |     |    |
|    | <b>local_continue1</b>                                                                                                                                                                               |                                                                                       |     |    |
| 22 | LIDL_DatRqConn                                                                                                                                                                                       | ConnSnd(TCV_chTch<br>,<br>Connect_02(TCV_TI))                                         |     |    |
| 23 | L?DL_DatInConnAck                                                                                                                                                                                    | ConnAckRcv(Connect<br>Ack_02(TCV_TI0))                                                | (P) |    |
| 24 | (TCV_Res := OO_TCHThroConnCHK())                                                                                                                                                                     |                                                                                       |     |    |
| 25 | [NOT TCV_Res]                                                                                                                                                                                        |                                                                                       | (F) | 6. |
| 26 | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                          |                                                                                       |     |    |
| 27 | [TCV_Res]                                                                                                                                                                                            |                                                                                       | (P) | 7. |
| 28 | LIDL_DatRqDisc                                                                                                                                                                                       | DiscSnd(TCV_chTch,<br>DisconnS(TCV_TI,<br>Cause_01,<br>ProgInd_omit,<br>UuInfo_omit)) |     |    |
| 29 | L?DL_DatInRel                                                                                                                                                                                        | ReleaseRcv(Release<br>_10(TCV_TI0))                                                   | (P) |    |
| 30 | LIDL_DatRqRelCmp                                                                                                                                                                                     | RelComSnd(TCV_ch<br>Tch,<br>ReleaseCmp_08(TCV<br>_TI))                                |     |    |
| 31 | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                          |                                                                                       |     |    |
|    | <b>local_TrafficChConf</b>                                                                                                                                                                           |                                                                                       |     |    |
| 32 | [TCV_ChRate = C_Full]                                                                                                                                                                                |                                                                                       |     |    |
| 33 | +FullRateCh_A_1_nociph(C_Ass, TSPX_TmSlitDef,<br>TSPX_TscDef, ChMod_speech,<br>FreqTCH(C_arfcnEgsm), FreqTCH(C_arfcn_tchAd),<br>TimingAdv(0), C_BABR_0, C_cch_1nonComb,<br>C_BPM_3)                  |                                                                                       |     | 4. |
| 34 | [TCV_ChRate = C_Half]                                                                                                                                                                                |                                                                                       |     |    |
| 35 | +HalfRateCh_A_1_nociph(TSPX_TCHHSubDef,<br>C_Ass, TSPX_TmSlitDef, TSPX_TscDef,<br>ChMod_speech, FreqTCH(C_arfcnEgsm),<br>FreqTCH(C_arfcn_tchAd), TimingAdv(0),<br>C_BABR_0, C_cch_1nonComb, C_BPM_3) |                                                                                       |     | 5. |

**Detailed Comments:**

1. To setup a physical channel
2. CHANNEL REQUEST with "emergency call establishment" cause received.
3. CM SERVICE REQUEST with "emergency call establishment" service type correct TMSI and CKSN received.
4. To setup a physical channel as full rate traffic channel.
5. To setup a physical channel as half rate traffic channel.
6. The TCH channel is not through connected, fail.
7. The TCH channel is through connected.

## Test Group SS

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                            |   |                                        |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---|----------------------------------------|
| <b>Test Case Name:</b>      |       | TC_31_2_1_1_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                            |   |                                        |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                            |   |                                        |
| <b>Purpose:</b>             |       | <p>1) To check that the MS correctly requests a supplementary service transaction for registration of call forwarding in CHANNEL REQUEST message.</p> <p>2) To check that the MS correctly requests a supplementary service transaction for registration of call forwarding in the subsequent CM-SERVICE REQUEST.</p> <p>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.</p> <p>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).</p> <p>These checks are done for :</p> <p>a) CFNRy, for basic service group speech,</p> <p>b) CFU, for basic service group all facsimile.</p> |                                                                                            |   |                                        |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                            |   |                                        |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CRef                                                                                       | V | 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_MaxPwrLvlID, 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                            |   |                                        |
|                             |       | <b>part1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                            |   |                                        |
| 5                           |       | (TCV_Null := OO_InitSS("***61*00431234*11*5#"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                            |   | 2. international prefix + Country code |
| 6                           |       | +ChannelReqtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                            |   |                                        |
| 7                           |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                            |   |                                        |
| 8                           |       | +Checktree(C_RegCFNRy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                            |   |                                        |
|                             |       | <b>part2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                            |   |                                        |
| 9                           |       | (TCV_Null := OO_InitSS("***21*1234*13#"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                            |   | 5.                                     |
| 10                          |       | +ChannelReqtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                            |   |                                        |
| 11                          |       | +localtree1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                            |   |                                        |
| 12                          |       | +Checktree(C_RegCFU)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                            |   |                                        |
|                             |       | <b>localtree</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                            |   |                                        |
| 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_Invkld := OC_Asn1intToOct(TCV_Comp.[TCV_n].registerSSComponents.registerSS_InvokeComp.invokeID, 1))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Register_03(Register Pdu_03(facilityIErcviei ( RegisterSS_01)))                            |   |                                        |
| 14                          |       | LIDL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI, facilityIEtsndiei(RegisterSSrslt_01(TCV_Invkld)))) |   | 6.                                     |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                               |                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>localtree1</b><br>L?DL_DatInRegister (TCV_TI :=<br>DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI,<br>TCV_TI.ti.f := '1'B, TCV_Comp :=<br>DL_DatInRegister.msg.fie.components_1, TCV_n :=<br>OC_PosinSet(TCV_Comp, RegisterSS_02),<br>TCV_Invkld :=<br>OC_Asn1intToOct(TCV_Comp.[TCV_n].registerSSCo<br>mponents.registerSS_InvokeComp.invokelD, 1)) | Register_03(Register<br>Pdu_03(facilityErcviei<br>( RegisterSS_02)))                                                                          |                         |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | L!DL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                    | RelComSnd(TCV_ch,<br>ReleaseCmp_09(TCV<br>_TI,<br>facilitylEtsndiei(Regist<br>erSSRslt_02(TCV_Inv<br>kld))))                                  | 6.                      |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>ChannelReqtree</b><br>L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)                                                                                                                                                                                                                                        | ChReq(ChRequest_0<br>4)                                                                                                                       |                         |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                        |                                                                                                                                               | To match ChReq retrans. |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | LIDL_UdatRqImm                                                                                                                                                                                                                                                                                                                                      | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(0))) |                         |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                     | CMSerReq(CMServic<br>eReq_08)                                                                                                                 |                         |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                           |                                                                                                                                               | Restore Normal default  |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | L!DL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                    | CMSerAcp(TCV_ch,<br>CMSerAcp_01)                                                                                                              |                         |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Checktree(par:INTEGER)</b><br>(TCV_Res := OO_SSresultCHK(par))                                                                                                                                                                                                                                                                                   |                                                                                                                                               |                         |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | [TCV_Res]                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                               | (P) 3.                  |
| 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                            |                                                                                                                                               |                         |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                               | (F) 4.                  |
| 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                            |                                                                                                                                               |                         |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                               |                         |
| <ol style="list-style-type: none"> <li>1. To setup a physical channel as BCCH, CCCH and SDCCH4 with default parameters.</li> <li>2. To initiate a registration of call forwarding service for CFNRy (speech).</li> <li>3. The user indication is correct.</li> <li>4. The user indication is wrong.</li> <li>5. To initiate a registration of call forwarding service for CFU (all facsimile).</li> <li>6. To return the ReturnResult of SSoperation by RELEASE COMPLETE message.</li> </ol> |                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                               |                         |



### Test Case Dynamic Behaviour

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_31_2_1_1_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Group:</b>          | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purpose:</b>        | <p>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.</p> <p>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.</p> <p>3) To check that upon receipt of the RELEASE COMPLETE message related to the present SS transaction, the first transaction remains unaffected.</p> <p>4) To check that upon receipt of the RELEASE COMPLETE message, the MS provides the appropriate user indication (as described by the Manufacturer).</p> <p>These checks are performed with a call transaction already established for :</p> <p>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".</p> <p>b) CF, for all facsimile, the RELEASE COMPLETE message being sent with a facility IE containing a reject(invoked_problem) where invoked_problem is "resource limitation".</p> |
| <b>Default:</b>        | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                                 | V | 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                      |   | 2.                                        |
| 6  |       | (TCV_Null :=<br>OO_InitSS("***67*00431234*21#"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                      |   | 3. international prefix +<br>Country code |
| 7  |       | +part1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                      |   |                                           |
| 8  |       | (TCV_Null :=<br>OO_InitSS("***002*00431234*13#"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                      |   | 4. international prefix +<br>Country code |
| 9  |       | +part2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                      |   |                                           |
|    |       | <b>part1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                      |   |                                           |
| 10 |       | L?DL_DatInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CMSerDatReq(CMSer<br>viceReq_08)                                     |   |                                           |
| 11 |       | LIDL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CMSerAcp(TCV_chTc<br>h, CMServiceAcp_01)                             |   |                                           |
| 12 |       | L?DL_DatInRegister (TCV_TI1 :=<br>DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI1,<br>TCV_TI2.ti_f := '1'B, TCV_Comp :=<br>DL_DatInRegister.msg.fie.components_1)                                                                                                                                                                                                                                                                                                                                                                                                         | Register_03(Register<br>Pdu_03(facilityIErcvie<br>( RegisterSS_03))) |   |                                           |
| 13 |       | (TCV_n := OC_PosinSet(TCV_Comp,<br>RegisterSS_03), TCV_Invkld :=<br>OC_Asn1intToOct(TCV_Comp.[TCV_n].register<br>SSComponents.registerSS_InvokeComp.invoke                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                      |   |                                           |

|    |                                                                                                                                                                           |                                                                                                             |     |     |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-----|-----|
| 14 | ID, 1))<br>+localtree                                                                                                                                                     |                                                                                                             |     |     |
| 15 | <b>localtree</b><br>L!DL_DatRqRelCmp                                                                                                                                      | RelComSnd(TCV_chTch,<br>ReleaseCmp_09(TCV_TI2,<br>facilitylEtsndiei(Regist<br>erSSerr_01(TCV_Inv<br>kld)))) |     |     |
| 16 | L!DL_DatRqCcstEnq                                                                                                                                                         | CCStESnd(TCV_chTch,<br>CCStatusEq_01(TCV_TI))                                                               |     |     |
| 17 | L?DL_DatInCcst                                                                                                                                                            | CCStRcv(TCV_chTch<br>,<br>CCStatus_14(TCV_TI0, C_U10))                                                      | (P) |     |
| 18 | <b>part2</b><br>L?DL_DatInCmsRq                                                                                                                                           | CMSerDatReq(CMSer<br>viceReq_08)                                                                            |     |     |
| 19 | L!DL_DatRqCmsAcp                                                                                                                                                          | CMSerAcp(TCV_chTch,<br>CMServiceAcp_01)                                                                     |     |     |
| 20 | L?DL_DatInRegister (TCV_TI1 :=<br>DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI1,<br>TCV_TI2.ti_f := '1'B, TCV_Comp :=<br>DL_DatInRegister.msg.fie.components_1)             | Register_03(Register<br>Pdu_03(facilitylErcv<br>ie( RegisterSS_04)))                                        |     |     |
| 21 | (TCV_n := OC_PosinSet(TCV_Comp,<br>RegisterSS_04), TCV_Invkld :=<br>OC_Asn1intToOct(TCV_Comp.[TCV_n].register<br>SSComponents.registerSS_Invok<br>eComp.invoke<br>ID, 1)) |                                                                                                             |     |     |
| 22 | +localtree1                                                                                                                                                               |                                                                                                             |     |     |
| 23 | <b>localtree1</b><br>L!DL_DatRqRelCmp                                                                                                                                     | RelComSnd(TCV_chTch,<br>ReleaseCmp_09(TCV_TI2,<br>facilitylEtsndiei(Regist<br>erSSrej_01(TCV_Inv<br>kld)))) |     |     |
| 24 | (TCV_Res := OO_SSresultCHK(C_RegCF))                                                                                                                                      |                                                                                                             |     |     |
| 25 | [TCV_Res]                                                                                                                                                                 |                                                                                                             |     | (P) |
| 26 | L!DL_DatRqCcstEnq                                                                                                                                                         | CCStESnd(TCV_chTch,<br>CCStatusEq_01(TCV_TI))                                                               |     |     |
| 27 | L?DL_DatInCcst                                                                                                                                                            | CCStRcv(TCV_chTch<br>,<br>CCStatus_14(TCV_TI0, C_U10))                                                      | (P) |     |
| 28 | +PostMainLinkRel(TCV_chTch)                                                                                                                                               |                                                                                                             |     |     |
| 29 | [NOT TCV_Res]                                                                                                                                                             |                                                                                                             |     | (F) |
| 30 | L!DL_DatRqCcstEnq                                                                                                                                                         | CCStESnd(TCV_chTch,<br>CCStatusEq_01(TCV_TI))                                                               |     |     |
| 31 | L?DL_DatInCcst                                                                                                                                                            | CCStRcv(TCV_chTch<br>,<br>CCStatus_14(TCV_TI0, C_U10))                                                      | (P) |     |
| 32 | +PostMainLinkRel(TCV_chTch)                                                                                                                                               |                                                                                                             |     |     |

**Detailed Comments:**

1. To setup traffic channel.
2. To establish a mobile originating call.
3. To initiate a registration of call forwarding service for CFB (all asynchronous service).
4. To initiate a registration of call forwarding service for CF (all facsimile).

### Test Case Dynamic Behaviour

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_31_2_1_2_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Group:</b>          | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purpose:</b>        | <p>1) To check that the MS correctly requests supplementary service transaction for erasure of call forwarding in CHANNEL REQUEST message.</p> <p>2) To check that the MS correctly requests supplementary service transaction for erasure of call forwarding in the subsequent CM-SERVICE REQUEST.</p> <p>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.</p> <p>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).</p> <p>These checks are done for :</p> <p>a) CFC, for basic service group all facsimile.</p> <p>b) CFNRc, for all basic service groups.</p> |
| <b>Default:</b>        | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                                                                                   | V | 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_NECl_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, 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_Null := OO_InitSS("##004**13#"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                        |   | 2.                      |
| 4  |       | +part1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                        |   |                         |
| 5  |       | (TCV_Null := OO_InitSS("##62#"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                        |   | 3.                      |
| 6  |       | +part2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                        |   |                         |
|    |       | <b>part1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                        |   |                         |
| 7  |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.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))) |   |                         |
| 10 |       | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CMSerReq(CMServiceReq_08)                                                                                              |   |                         |
| 11 |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                        |   | Restore Normal default  |
| 12 |       | LIDL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CMSerAcp(TCV_ch, CMSerAcp_01)                                                                                          |   |                         |
| 13 |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                        |   |                         |
|    |       | <b>localtree</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                        |   |                         |
| 14 |       | L?DL_DatInRegister (TCV_TI := DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti.f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, EraseSS_01), TCV_Invkld := OC_Asn1intToOct(TCV_Comp.[TCV_n].eraseSSComponents.eraseSS_InvokeComp.invokelD, 1))                                                                                                                                                                                                                                                                       | Register_03(RegisterPdu_03(facilityIercvie (EraseSS_01)))                                                              |   |                         |
| 15 |       | LIDL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | RelComSnd(TCV_ch,                                                                                                      |   | 4.                      |

|    |                                                                                                                                                                                                                                                                                                                      |                                                                                                                        |                         |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 16 | +Checktree(C_ErsCFC)                                                                                                                                                                                                                                                                                                 | ReleaseCmp_09(TCV_TI, facility Etsndiei(EraseSSRslt_01(TCV_Invkld))))                                                  |                         |
| 17 | <b>part2</b><br>L?DL_RaInChRq (TCV_Rr := DL_RaInChRq, msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                        | ChReq(ChRequest_04)                                                                                                    |                         |
| 18 | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                         |                                                                                                                        | To match ChReq retrans. |
| 19 | LIDL_UdatRqImm                                                                                                                                                                                                                                                                                                       | ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0))) |                         |
| 20 | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                      | CMSerReq(CMServiceReq_08)                                                                                              |                         |
| 21 | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                            |                                                                                                                        | Restore Normal default  |
| 22 | LIDL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                     | CMSerAcp(TCV_ch, CMServiceAcp_01)                                                                                      |                         |
| 23 | +localtree1                                                                                                                                                                                                                                                                                                          |                                                                                                                        |                         |
| 24 | <b>localtree1</b><br>L?DL_DatInRegister (TCV_TI := DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, EraseSS_02), TCV_Invkld := OC_Asn1intToOct(TCV_Comp.[TCV_n].eraseSSComponents.eraseSS_InvokeComp.invokeID, 1)) | Register_03(RegisterPdu_03(facility Ercviei(EraseSS_02)))                                                              |                         |
| 25 | LIDL_DatRqRelCmp                                                                                                                                                                                                                                                                                                     | RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI, facility Etsndiei(EraseSSRslt_02(TCV_Invkld))))                                | 5.                      |
| 26 | +Checktree(C_ErsCFNRc)                                                                                                                                                                                                                                                                                               |                                                                                                                        |                         |
| 27 | <b>Checktree(par:INTEGER)</b><br>(TCV_Res := OO_SSresultCHK(par))                                                                                                                                                                                                                                                    |                                                                                                                        |                         |
| 28 | [TCV_Res]                                                                                                                                                                                                                                                                                                            |                                                                                                                        | (P) 6.                  |
| 29 | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                             |                                                                                                                        |                         |
| 30 | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                        |                                                                                                                        | (F) 7.                  |
| 31 | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                             |                                                                                                                        |                         |

**Detailed Comments:**

1. To setup a physical channel as BCCH, CCCH and SDCCH4 with default parameters.
2. To initiate an EraseSS operation of call forwarding service for CFC (all facsimile).
3. To initiate an EraseSS operation of call forwarding service for CFNRc (all basic services).
4. To return the ReturnResult of SSoperation by RELEASE COMPLETE message.
5. To return the ReturnResult of SSoperation by RELEASE COMPLETE message.
6. The user indication is correct.
7. The user indication is wrong.

### Test Case Dynamic Behaviour

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_31_2_1_2_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Group:</b>          | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purpose:</b>        | <p>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.</p> <p>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.</p> <p>3) To check that upon receipt of the RELEASE COMPLETE message related to the present SS transaction, the first transaction remains unaffected.</p> <p>4) To check that upon receipt of the RELEASE COMPLETE message, the MS provides the appropriate user indication (as described by the Manufacturer).</p> <p>These checks are performed with a call transaction already established for :</p> <p>a) CFU, for speech, the RELEASE COMPLETE message being sent with a facility IE containing a return_error(error) where error is "Teleservice not provisioned".</p> <p>b) CFNRy, for all facsimile, the RELEASE COMPLETE message being sent with a facility IE containing a reject(invoked_problem) where invoked_problem is "resource limitation".</p> |
| <b>Default:</b>        | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                         | V | Comments |
|----|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|---|----------|
| 1  |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                              |   |          |
| 2  |       | +BasicServiceMO(TSPX_MOBscSvcl, TSPX_MOChRate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                              |   |          |
| 3  |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECL_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, 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)                                                                                                                                                                                                                                                                                                                                                                        |                                                              |   | 1.       |
| 5  |       | +Est_MO_Call(TimingAdv(0), TCV_ChRate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                              |   | 2.       |
| 6  |       | (TCV_Null := OO_InitSS("##21**11#"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                              |   | 3.       |
| 7  |       | +part1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                              |   |          |
| 8  |       | (TCV_Null := OO_InitSS("##61**13#"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                              |   | 4.       |
| 9  |       | +part2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                              |   |          |
| 10 |       | <b>part1</b><br>L?DL_DatInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CMSerDatReq(CMSer viceReq_08)                                |   |          |
| 11 |       | LIDL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CMSerAcp(TCV_chTc h, CMServiceAcp_01)                        |   |          |
| 12 |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                              |   |          |
| 13 |       | <b>localtree</b><br>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_Invkld := OC_Asn1intToOct(TCV_Comp.[TCV_n].eraseSSCom ponents.eraseSS_InvokeComp.invokelD, 1))                                                                                                                                                                                                                                               | Register_03(Register Pdu_03(facilityIErcviei ( EraseSS_03))) |   |          |
| 14 |       | LIDL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | RelComSnd(TCV_ch                                             |   |          |

|    |                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                       |     |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 15 | LIDL_DatRqCstEnq                                                                                                                                                                                                                                                                                                                              | Tch,<br>ReleaseCmp_09(TCV<br>_TI2,<br>facilitylEtsndiei(Erase<br>SSErr_01(TCV_Invkld<br>))))<br>CCStESnd(TCV_chT<br>ch,<br>CCStatusEq_01(TCV<br>_TI)) |     |
| 16 | L?DL_DatInCst                                                                                                                                                                                                                                                                                                                                 | CCStRcv(TCV_chTch<br>,<br>CCStatus_14(TCV_TI<br>0, C_U10))                                                                                            | (P) |
| 17 | <b>part2</b><br>L?DL_DatInCmsRq                                                                                                                                                                                                                                                                                                               | CMSerDatReq(CMSer<br>viceReq_08)                                                                                                                      |     |
| 18 | LIDL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                              | CMSerAcp(TCV_chTc<br>h, CMServiceAcp_01)                                                                                                              |     |
| 19 | +localtree1                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                       |     |
| 20 | <b>localtree1</b><br>L?DL_DatInRegister (TCV_TI1 :=<br>DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI1,<br>TCV_TI2.ti_f := '1'B, TCV_Comp :=<br>DL_DatInRegister.msg.fie.components_1, TCV_n :=<br>OC_PosinSet(TCV_Comp, EraseSS_04), TCV_Invkld<br>:=<br>OC_Asn1intToOct(TCV_Comp.[TCV_n].eraseSSCom<br>ponents.eraseSS_InvokeComp.invokeID, 1)) | Register_03(Register<br>Pdu_03(facilitylErcviei<br>( EraseSS_04)))                                                                                    |     |
| 21 | LIDL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                              | RelComSnd(TCV_ch<br>Tch,<br>ReleaseCmp_09(TCV<br>_TI2,<br>facilitylEtsndiei(Erase<br>SSRej_01(TCV_Invkl<br>d))))                                      |     |
| 22 | (TCV_Res := OO_SSresultCHK(C_ErsCFNRy))                                                                                                                                                                                                                                                                                                       |                                                                                                                                                       |     |
| 23 | [TCV_Res]                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                       | (P) |
| 24 | LIDL_DatRqCstEnq                                                                                                                                                                                                                                                                                                                              | CCStESnd(TCV_chT<br>ch,<br>CCStatusEq_01(TCV<br>_TI))                                                                                                 |     |
| 25 | L?DL_DatInCst                                                                                                                                                                                                                                                                                                                                 | CCStRcv(TCV_chTch<br>,<br>CCStatus_14(TCV_TI<br>0, C_U10))                                                                                            | (P) |
| 26 | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                       |     |
| 27 | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                       | (F) |
| 28 | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                       |     |

**Detailed Comments:**

1. To setup traffic channel.
2. To establish a mobile originating call.
3. To initiate an erasure of call forwarding service for CFU (speech).
4. To initiate an erasure of call forwarding service for CFNRy (all facsimile).

### Test Case Dynamic Behaviour

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_31_2_1_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Group:</b>          | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Purpose:</b>        | <p>1) To check that the MS correctly requests a supplementary service transaction for activation of call forwarding in CHANNEL REQUEST message.</p> <p>2) To check that the MS correctly requests a supplementary service transaction for activation of call forwarding in the subsequent CM-SERVICE REQUEST.</p> <p>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.</p> <p>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).</p> <p>These checks are done for :</p> <p>a) CF, for basic service group "all synchronous services".</p> <p>b) CFU, for all basic service groups.</p> |
| <b>Default:</b>        | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                                                                                   | V | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                        |   |                         |
|    |       | <b>part1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                        |   |                         |
| 7  |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.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))) |   |                         |
| 10 |       | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CMSerReq(CMServic<br>eReq_08)                                                                                          |   |                         |
| 11 |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                        |   | Restore Normal default  |
| 12 |       | !IDL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CMSerAcp(TCV_ch, CMServicAcp_01)                                                                                       |   |                         |
| 13 |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                        |   |                         |
|    |       | <b>localtree</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                        |   |                         |
| 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_Invkld := OC_Asn1intToOct(TCV_Comp.[TCV_n].activateSSCo<br>mponents.activateSS_InvokeComp.invokelD, 1))                                                                                                                                                                                                                                                          | Register_03(Register Pdu_03(facilityIercviei ( ActivateSS_01)))                                                        |   |                         |

|    |                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                        |                         |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 15 | L!DL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                    | RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI, facilitylEtsndiei(ActivateSSRslt_01(TCV_Invkld))))                             |                         |
| 16 | +Checktree(C_ActCF)                                                                                                                                                                                                                                                                                                                                 |                                                                                                                        |                         |
| 17 | <b>part2</b><br>L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.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(CMServiceReq_08)                                                                                              |                         |
| 21 | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                           |                                                                                                                        | Restore Normal default  |
| 22 | L!DL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                    | CMSerAcp(TCV_ch, CMServiceAcp_01)                                                                                      |                         |
| 23 | +localtree1                                                                                                                                                                                                                                                                                                                                         |                                                                                                                        |                         |
| 24 | <b>localtree1</b><br>L?DL_DatInRegister (TCV_TI :=<br>DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI,<br>TCV_TI.ti.f := '1'B, TCV_Comp :=<br>DL_DatInRegister.msg.fie.components_1, TCV_n :=<br>OC_PosinSet(TCV_Comp, ActivateSS_02),<br>TCV_Invkld :=<br>OC_Asn1intToOct(TCV_Comp.[TCV_n].activateSSCo<br>mponents.activateSS_InvokeComp.invokeID, 1)) | Register_03(RegisterPdu_03(facilitylErcviei(ActivateSS_02)))                                                           |                         |
| 25 | L!DL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                    | RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI, facilitylEtsndiei(ActivateSSRslt_02(TCV_Invkld))))                             | 5.                      |
| 26 | +Checktree(C_ActCFU)                                                                                                                                                                                                                                                                                                                                |                                                                                                                        |                         |
| 27 | <b>Checktree(par:INTEGER)</b><br>(TCV_Res := OO_SSresultCHK(par))                                                                                                                                                                                                                                                                                   |                                                                                                                        | 6.                      |
| 28 | [TCV_Res]                                                                                                                                                                                                                                                                                                                                           |                                                                                                                        | (P)                     |
| 29 | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                            |                                                                                                                        |                         |
| 30 | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                       |                                                                                                                        | (F)                     |
| 31 | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                            |                                                                                                                        |                         |

**Detailed Comments:**

1. To setup a physical channel as BCCH, CCCH and SDCCH4 with default parameters.
2. To initiate an ActivateSS operation of call forwarding service for CF (all synchronous services).
3. To initiate an ActivateSS operation of call forwarding service for CFU (all basic services).
4. To return the ReturnResult of SSoperation by FACILITY message.
5. To return the ReturnResult of SSoperation by RELEASE COMPLETE message.
6. To check whether the user indication is correct.



| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                        |   |                         |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---|-------------------------|
| <b>Test Case Name:</b>      |       | TC_31_2_1_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                        |   |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                        |   |                         |
| <b>Purpose:</b>             |       | <p>1) To check that the MS correctly requests a supplementary service transaction for deactivation of call forwarding in CHANNEL REQUEST message.</p> <p>2) To check that the MS correctly requests a supplementary service transaction for deactivation of call forwarding in the subsequent CM-SERVICE REQUEST.</p> <p>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.</p> <p>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).</p> <p>These checks are done for :</p> <p>a) CFC, for basic service group speech.</p> <p>b) CFNRc, for basic service group all facsimile.</p> |                                                                                                                        |   |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                        |   |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CRef                                                                                                                   | V | 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_NECl_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, 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_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2)                                                                                                                                                                                                                                                                         |                                                                                                                        |   |                         |
| 3                           |       | (TCV_Null := OO_InitSS("#004**11#"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                        |   | 2.                      |
| 4                           |       | +part1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                        |   |                         |
| 5                           |       | (TCV_Null := OO_InitSS("#62**13#"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                        |   | 3.                      |
| 6                           |       | +part2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                        |   |                         |
|                             |       | <b>part1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                        |   |                         |
| 7                           |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.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))) |   |                         |
| 10                          |       | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CMSerReq(CMServiceReq_08)                                                                                              |   |                         |
| 11                          |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                        |   | Restore Normal default  |
| 12                          |       | LIDL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CMSerAcp(TCV_ch, CMServiceAcp_01)                                                                                      |   |                         |
| 13                          |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                        |   |                         |
|                             |       | <b>localtree</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                        |   |                         |
| 14                          |       | L?DL_DatInRegister (TCV_TI := DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI, TCV_TI.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, DeactivateSS_01), TCV_Invkld := OC_Asn1intToOct(TCV_Comp.[TCV_n].deactivateSS Components.deactivateSS_InvokeComp.invokeID, 1))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Register_03(RegisterPdu_03(facilityIercvie ( DeactivateSS_01)))                                                        |   |                         |
| 15                          |       | LIDL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | RelComSnd(TCV_ch,                                                                                                      |   |                         |

|    |                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                        |                         |
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| 16 | +Checktree(C_DeactCFC)                                                                                                                                                                                                                                                                                                                                     | ReleaseCmp_09(TCV_TI, facilitylEtsndiei(DeactivateSSRslt_01(TCV_Invklid))))                                            |                         |
| 17 | <b>part2</b><br>L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                           | ChReq(ChRequest_04)                                                                                                    | To match ChReq retrans. |
| 18 | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                               |                                                                                                                        |                         |
| 19 | LIDL_UdatRqImm                                                                                                                                                                                                                                                                                                                                             | ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0))) |                         |
| 20 | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                            | CMSerReq(CMServiceReq_08)                                                                                              |                         |
| 21 | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                  |                                                                                                                        | Restore Normal default  |
| 22 | LIDL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                           | CMSerAcp(TCV_ch, CMServiceAcp_01)                                                                                      |                         |
| 23 | +localtree1                                                                                                                                                                                                                                                                                                                                                |                                                                                                                        |                         |
| 24 | <b>localtree1</b><br>L?DL_DatInRegister (TCV_TI :=<br>DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI,<br>TCV_TI.ti_f := '1'B, TCV_Comp :=<br>DL_DatInRegister.msg.fie.components_1, TCV_n :=<br>OC_PosinSet(TCV_Comp, DeactivateSS_02),<br>TCV_Invklid :=<br>OC_Asn1intToOct(TCV_Comp.[TCV_n].deactivateSS<br>Components.deactivateSS_InvokeComp.invokeID, 1)) | Register_03(RegisterPdu_03(facilitylErcviei(DeactivateSS_02)))                                                         |                         |
| 25 | LIDL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                           | RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI, facilitylEtsndiei(DeactivateSSRslt_02(TCV_Invklid))))                          | 5.                      |
| 26 | +Checktree(C_DeactCFNRc)                                                                                                                                                                                                                                                                                                                                   |                                                                                                                        |                         |
| 27 | <b>Checktree(par:INTEGER)</b><br>(TCV_Res := OO_SSresultCHK(par))                                                                                                                                                                                                                                                                                          |                                                                                                                        | 6.                      |
| 28 | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                        | (P)                     |
| 29 | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                   |                                                                                                                        |                         |
| 30 | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                              |                                                                                                                        | (F)                     |
| 31 | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                   |                                                                                                                        |                         |

**Detailed Comments:**

1. To setup a physical channel as BCCH, CCCH and SDCCH4 with default parameters.
2. To initiate a DeactivateSS operation of call forwarding service for CFC (speech).
3. To initiate a DeactivateSS operation of call forwarding service for CFNRc (all facsimile).
4. To return the ReturnResult of SSoperation by FACILITY message.
5. To return the ReturnResult of SSoperation by RELEASE COMPLETE message.
6. To check whether the user indication is correct.

| Test Case Dynamic Behaviour                                                                                                                                                       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                        |   |                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---|-------------------------|
| <b>Test Case Name:</b> TC_31_2_1_6_1                                                                                                                                              |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                        |   |                         |
| <b>Group:</b> GSM_L3_MS_v4180/SS/                                                                                                                                                 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                        |   |                         |
| <b>Purpose:</b>                                                                                                                                                                   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                        |   |                         |
| 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.                                                                                                                                           |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                        |   |                         |
| <b>Default:</b> OtherEventsFail                                                                                                                                                   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                        |   |                         |
| Nr                                                                                                                                                                                | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                                                                                   | V | Comments                |
| 1                                                                                                                                                                                 |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                        |   |                         |
| 2                                                                                                                                                                                 |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_ImmAsgn, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECl_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, 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_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2) |                                                                                                                        |   |                         |
| 3                                                                                                                                                                                 |       | (TCV_Null := OO_InitSS("**#67#"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                        |   | 2.                      |
| 4                                                                                                                                                                                 |       | +part1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                        |   |                         |
| 5                                                                                                                                                                                 |       | (TCV_Null := OO_InitSS("**#61**11#"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                        |   | 3.                      |
| 6                                                                                                                                                                                 |       | +part2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                        |   |                         |
|                                                                                                                                                                                   |       | <b>part1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                        |   |                         |
| 7                                                                                                                                                                                 |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq, msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ChReq(ChRequest_04)                                                                                                    |   |                         |
| 8                                                                                                                                                                                 |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                        |   | To match ChReq retrans. |
| 9                                                                                                                                                                                 |       | LIDL_UdatRqImmAsgn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 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                                                                                                                                                                                |       | LIDL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CMSerAcp(TCV_ch, CMServiceAcp_01)                                                                                      |   |                         |
| 13                                                                                                                                                                                |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                        |   |                         |
|                                                                                                                                                                                   |       | <b>localtree</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                        |   |                         |
| 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_Invkld := OC_Asn1intToOct(TCV_Comp.[TCV_n].interrogateSSComponents.interrogateSS_InvokeComp.invokelD, 1))                                                                                                                                                                                                                                                     | Register_03(RegisterPdu_03(facilityIercvie(InterrogateSS_01)))                                                         |   |                         |

|    |                                                                                                                                                                                                                                                                                                                                         |                                                                                                                        |                         |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 15 | L!DL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                        | RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI, facility Etsndiei(InterrogateSSRslt_01(TCV_Invklid))))                         |                         |
| 16 | +Checktree(C_InterrogCFB)                                                                                                                                                                                                                                                                                                               |                                                                                                                        |                         |
| 17 | <b>part2</b><br>L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.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(CMServiceReq_08)                                                                                              |                         |
| 21 | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                               |                                                                                                                        | Restore Normal default  |
| 22 | L!DL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                        | CMSerAcp(TCV_ch, CMServiceAcp_01)                                                                                      |                         |
| 23 | +localtree1                                                                                                                                                                                                                                                                                                                             |                                                                                                                        |                         |
| 24 | <b>localtree1</b><br>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_Invklid := OC_Asn1intToOct(TCV_Comp.[TCV_n].interrogateSSComponents.interrogateSS_InvokeComp.invokeID, 1)) | Register_03(RegisterPdu_03(facility Ercviei(InterrogateSS_02)))                                                        |                         |
| 25 | L!DL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                        | RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI, facility Etsndiei(InterrogateSSRslt_02(TCV_Invklid))))                         | 5.                      |
| 26 | +Checktree(C_InterrogCFC)                                                                                                                                                                                                                                                                                                               |                                                                                                                        |                         |
| 27 | <b>Checktree(par:INTEGER)</b><br>(TCV_Res := OO_SSresultCHK(par))                                                                                                                                                                                                                                                                       |                                                                                                                        | 6.                      |
| 28 | [TCV_Res]                                                                                                                                                                                                                                                                                                                               |                                                                                                                        | (P)                     |
| 29 | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                |                                                                                                                        |                         |
| 30 | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                           |                                                                                                                        | (F)                     |
| 31 | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                |                                                                                                                        |                         |

**Detailed Comments:**

1. To setup a physical channel as BCCH, CCCH and SDCCH4 with default parameters.
2. To initiate a InterrogateSS operation of call forwarding service for CFB (all basic 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

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_31_2_1_6_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Group:</b>          | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Purpose:</b>        | <p>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.</p> <p>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.</p> <p>3) To check that upon receipt of the RELEASE COMPLETE message related to the present SS transaction, the first transaction remains unaffected.</p> <p>4) To check that upon receipt of the RELEASE COMPLETE message, the MS provides the appropriate user indication (as described by the Manufacturer).</p> <p>These checks are performed with a call transaction already established for :</p> <p>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".</p> <p>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".</p> |
| <b>Default:</b>        | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                                              | V | 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_NECL_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, 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_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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                   |   | 2.       |
| 6  |       | (TCV_Null := OO_InitSS("**#62#"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                   |   | 3.       |
| 7  |       | +part1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                   |   |          |
| 8  |       | (TCV_Null := OO_InitSS("**#67**13#"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                   |   | 4.       |
| 9  |       | +part2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                   |   |          |
|    |       | <b>part1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                   |   |          |
| 10 |       | L?DL_DatInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CMSerDatReq(CMSer viceReq_08)                                     |   |          |
| 11 |       | L!DL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CMSerAcp(TCV_chTc h, CMServiceAcp_01)                             |   |          |
| 12 |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                   |   |          |
|    |       | <b>localtree</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                   |   |          |
| 13 |       | L?DL_DatInRegister (TCV_TI1 := DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI1, TCV_TI2.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, InterrogateSS_03), TCV_Invkld := OC_Asn1intToOct(TCV_Comp.[TCV_n].interrogateSSComponents.interrogateSS_InvokeComp.invokeld,                                                                                                                                                                                                                                                    | Register_03(Register Pdu_03(facilityIercvie ( InterrogateSS_03))) |   |          |

|    |                                                                                                                                                                                                                                                                                                                                                              |                                                                                                         |     |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-----|
| 14 | 1))<br>L!DL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                      | RelComSnd(TCV_chTch,<br>ReleaseCmp_09(TCV_TI2,<br>facilitylEtsndiei(InterrogateSSErr_01(TCV_Invklid)))) |     |
| 15 | L!DL_DatRqCstEnq                                                                                                                                                                                                                                                                                                                                             | CCStESnd(TCV_chTch,<br>CCStatusEq_01(TCV_TI))                                                           |     |
| 16 | L?DL_DatInCst                                                                                                                                                                                                                                                                                                                                                | CCStRcv(TCV_chTch,<br>CCStatus_14(TCV_TI0, C_U10))                                                      | (P) |
| 17 | <b>part2</b><br>L?DL_DatInCmsRq                                                                                                                                                                                                                                                                                                                              | CMSerDatReq(CMServiceReq_08)                                                                            |     |
| 18 | L!DL_DatRqCmsAcq                                                                                                                                                                                                                                                                                                                                             | CMSerAcq(TCV_chTch, CMServiceAcq_01)                                                                    |     |
| 19 | +localtree1                                                                                                                                                                                                                                                                                                                                                  |                                                                                                         |     |
| 20 | <b>localtree1</b><br>L?DL_DatInRegister (TCV_TI1 :=<br>DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI1,<br>TCV_TI2.ti_f := '1'B, TCV_Comp :=<br>DL_DatInRegister.msg.fie.components_1, TCV_n :=<br>OC_PosinSet(TCV_Comp, InterrogateSS_04),<br>TCV_Invklid :=<br>OC_Asn1intToOct(TCV_Comp.[TCV_n].interrogateSSComponents.interrogateSS_InvokeComp.invokeID, 1)) | Register_03(RegisterPdu_03(facilitylErcviei(InterrogateSS_04)))                                         |     |
| 21 | L!DL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                             | RelComSnd(TCV_chTch,<br>ReleaseCmp_09(TCV_TI2,<br>facilitylEtsndiei(InterrogateSSRej_01(TCV_Invklid)))) |     |
| 22 | +Checktree(C_InterrogCFB)                                                                                                                                                                                                                                                                                                                                    |                                                                                                         |     |
| 23 | <b>Checktree(par:INTEGER)</b><br>(TCV_Res := OO_SSresultCHK(par))                                                                                                                                                                                                                                                                                            |                                                                                                         |     |
| 24 | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                    |                                                                                                         | (P) |
| 25 | L!DL_DatRqCstEnq                                                                                                                                                                                                                                                                                                                                             | CCStESnd(TCV_chTch,<br>CCStatusEq_01(TCV_TI))                                                           |     |
| 26 | L?DL_DatInCst                                                                                                                                                                                                                                                                                                                                                | CCStRcv(TCV_chTch,<br>CCStatus_14(TCV_TI0, C_U10))                                                      | (P) |
| 27 | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                  |                                                                                                         |     |
| 28 | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                |                                                                                                         | (F) |
| 29 | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                  |                                                                                                         |     |

**Detailed Comments:**

1. To setup traffic channel.
2. To establish a mobile originating call.
3. To initiate an interrogation of call forwarding service for CFNRc (all basic services).
4. To initiate an interrogation of call forwarding service for CFB (all facsimile).

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                        |   |                         |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---|-------------------------|
| <b>Test Case Name:</b>      |       | TC_31_2_1_7_1_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                        |   |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                        |   |                         |
| <b>Purpose:</b>             |       | <p>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).</p> <p>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.</p> <p>These checks are performed in the case of CFB.</p>                                                                                                                   |                                                                                                                        |   |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                        |   |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                                                                                                   | V | Comments                |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                        |   |                         |
| 2                           |       | +BasicServiceMT(TSPX_MTBscSvcA, TSPX_MTChRateA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                        |   |                         |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_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                           |       | L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)                                                                                 |   |                         |
| 6                           |       | L?DL_RaclnChRq (TCV_Rr := DL_RaclnChRq.msg.ecau_rrf, TCV_Fn := DL_RaclnChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ChReq(ChRequest_17)                                                                                                    |   |                         |
| 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_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PagingRes(PagingRes_01)                                                                                                |   |                         |
| 10                          |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                        |   | Restore Normal default  |
| 11                          |       | L!DL_DatRqSetup                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | SetupSnd(TCV_ch, TCV_Setup_mt)                                                                                         |   |                         |
| 12                          |       | +AssCmdGen(TCV_cellid, TCV_ChRate, TSPX_TmSlitDef, TSPX_TscDef, TSPX_TCHHSubDef)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                        |   |                         |
| 13                          |       | L?DL_DatInCallCo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CallCfm(CallConfirm_01(TI_01))                                                                                         |   |                         |
| 14                          |       | +AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                        |   |                         |
| 15                          |       | L?DL_DatInAlert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | AlertRcv(AlertingInd_01(TI_01))                                                                                        |   |                         |
| 16                          |       | +continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                        |   |                         |
|                             |       | continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                        |   |                         |

|                                                                                            |                                          |                                                                                        |     |
|--------------------------------------------------------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------------|-----|
| 17                                                                                         | L!DL_DatRqFac                            | FacilitySnd(TCV_chTch,<br>FacilityPdu_25(TI_02,<br>facility!Etsnd(NotificationSS_01))) | 2.  |
| 18                                                                                         | (TCV_Res := OO_SSresultCHK(C_NotifyCFB)) |                                                                                        |     |
| 19                                                                                         | [TCV_Res]                                |                                                                                        | (P) |
| 20                                                                                         | +localtree                               |                                                                                        |     |
| 21                                                                                         | [NOT TCV_Res]                            |                                                                                        | (F) |
| 22                                                                                         | +localtree                               |                                                                                        |     |
| <b>localtree</b>                                                                           |                                          |                                                                                        |     |
| 23                                                                                         | L!DL_DatRqCcstEnq                        | CCStESnd(TCV_chTch,<br>CCStatusEq_01(TI_02))                                           |     |
| 24                                                                                         | L?DL_DatInCcst                           | CCStRcv(TCV_chTch,<br>CCStatus_14(TI_01,<br>C_U7))                                     | (P) |
| 25                                                                                         | (TCV_Null := OO_HookOff())               |                                                                                        |     |
| 26                                                                                         | L?DL_DatInConn                           | ConnRcv(Connect_01(TI_01))                                                             |     |
| 27                                                                                         | LIDL_DatRqConnAck                        | ConnAckSnd(TCV_chTch,<br>ConnectAck_01(TI_02))                                         |     |
| 28                                                                                         | L!DL_DatRqFac                            | FacilitySnd(TCV_chTch,<br>FacilityPdu_25(TI_02,<br>facility!Etsnd(NotificationSS_01))) | 3.  |
| 29                                                                                         | (TCV_Res := OO_SSresultCHK(C_NotifyCFB)) |                                                                                        |     |
| 30                                                                                         | [TCV_Res]                                |                                                                                        | (P) |
| 31                                                                                         | +localtree1                              |                                                                                        |     |
| 32                                                                                         | [NOT TCV_Res]                            |                                                                                        | (F) |
| 33                                                                                         | +localtree1                              |                                                                                        |     |
| <b>localtree1</b>                                                                          |                                          |                                                                                        |     |
| 34                                                                                         | L!DL_DatRqCcstEnq                        | CCStESnd(TCV_chTch,<br>CCStatusEq_01(TI_02))                                           |     |
| 35                                                                                         | L?DL_DatInCcst                           | CCStRcv(TCV_chTch,<br>CCStatus_14(TI_01,<br>C_U10))                                    | (P) |
| 36                                                                                         | LIDL_DatRqRelCmp                         | RelComSnd(TCV_chTch,<br>ReleaseCmp_08(TI_02))                                          |     |
| 37                                                                                         | +PostMainLinkRel(TCV_chTch)              |                                                                                        |     |
| <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 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                               |   |                         |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------|
| <b>Test Case Name:</b>      |       | TC_31_2_1_7_1_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                               |   |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                               |   |                         |
| <b>Purpose:</b>             |       | <p>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.</p> <p>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.</p> <p>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.</p> <p>4) As an outgoing call is being established, if the CONNECT message is received with the facility information element containing 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.</p> |                                                                                                                                               |   |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                               |   |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CRef                                                                                                                                          | V | Comments                |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                               |   |                         |
| 2                           |       | +BasicServiceMO(TSPX_MOBscSvcJ,<br>TSPX_MOChRateJ)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                               |   |                         |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECL_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                               |   |                         |
| 4                           |       | +CCConfigTCH_nociph(TSPX_TCHHSubDef,<br>C_Ass, TSPX_TmSltDef, TSPX_TscDef,<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3, TCV_ChMod.mode, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                               |   | 1.                      |
| 5                           |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                               |   |                         |
| 6                           |       | L?DL_RaInChRq (TCV_Rr :=<br>DL_RaInChRq. msg.ecau_rrf, TCV_Fn :=<br>DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ChReq(ChRequest_1<br>5)                                                                                                                       |   |                         |
| 7                           |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                               |   | To match ChReq retrans. |
| 8                           |       | LIDL_UdatRqImmass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(0))) |   |                         |
| 9                           |       | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CMSerReq(CMServic<br>eReq_01)                                                                                                                 |   |                         |
| 10                          |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                               |   | Restore Normal default  |
| 11                          |       | LIDL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CMSerAcp(TCV_ch,<br>CMSerAcp_01)                                                                                                              |   |                         |
| 12                          |       | +RcvSetupOrEsetup(TCV_Setu<br>p_mo, TCV_Esetup,<br>TCV_Ecall)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                               |   |                         |
| 13                          |       | LIDL_DatRqCallProc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | CallProc(TCV_ch,<br>TCV_CallProc)                                                                                                             |   |                         |
| 14                          |       | +AssCmdGen(TCV_cellid,<br>TCV_ChRate,<br>TSPX_TmSltDef,<br>TSPX_TscDef,<br>TSPX_TCHHSubDef)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                               |   |                         |

|    |                                          |                                                |                                                                               |     |
|----|------------------------------------------|------------------------------------------------|-------------------------------------------------------------------------------|-----|
| 15 |                                          | +AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd) |                                                                               |     |
| 16 |                                          | +continue                                      |                                                                               |     |
|    | <b>continue</b>                          |                                                |                                                                               |     |
| 17 | L!DL_DatRqAlert                          |                                                | AlertSnd(TCV_chTch, Alerting_04(TCV_TI, facility Etsndiei(NotifiationSS_02))) | 2.  |
| 18 | (TCV_Res := OO_SSresultCHK(C_NotifyCFU)) |                                                |                                                                               |     |
| 19 | [TCV_Res]                                |                                                |                                                                               | (P) |
| 20 | +localtree                               |                                                |                                                                               |     |
| 21 | [NOT TCV_Res]                            |                                                |                                                                               | (F) |
| 22 | +localtree                               |                                                |                                                                               |     |
|    | <b>localtree</b>                         |                                                |                                                                               |     |
| 23 | L!DL_DatRqCcstEnq                        |                                                | CCStESnd(TCV_chTch, CCStatusEq_01(TCV_TI))                                    |     |
| 24 | L?DL_DatInCcst                           |                                                | CCStRcv(TCV_chTch, CCStatus_14(TCV_TIO, C_U4))                                | (P) |
| 25 | LIDL_DatRqConn                           |                                                | ConnSnd(TCV_chTch, Connect_05(TCV_TI, facility Etsndiei(NotifiationSS_03)))   | 3.  |
| 26 | L?DL_DatInConnAck                        |                                                | ConnAckRcv(ConnectAck_02(TCV_TIO))                                            |     |
| 27 | (TCV_Res := OO_SSresultCHK(C_NotifyCFC)) |                                                |                                                                               |     |
| 28 | [TCV_Res]                                |                                                |                                                                               | (P) |
| 29 | +localtree1                              |                                                |                                                                               |     |
| 30 | [NOT TCV_Res]                            |                                                |                                                                               | (F) |
| 31 | +localtree1                              |                                                |                                                                               |     |
|    | <b>localtree1</b>                        |                                                |                                                                               |     |
| 32 | L!DL_DatRqCcstEnq                        |                                                | CCStESnd(TCV_chTch, CCStatusEq_01(TCV_TI))                                    |     |
| 33 | L?DL_DatInCcst                           |                                                | CCStRcv(TCV_chTch, CCStatus_14(TCV_TIO, C_U10))                               | (P) |
| 34 | LIDL_DatRqRelCmp                         |                                                | RelComSnd(TCV_chTch, ReleaseCmp_08(TCV_TI))                                   |     |
| 35 | +PostMainLinkRel(TCV_chTch)              |                                                |                                                                               |     |

**Detailed Comments:**

1. To setup traffic channel.
2. To send an ALERTING message containing NotifySS invocation while the MS is in U4 state.
3. To send a CONNECT message containing NotifySS invocation while the MS is in U10 state.

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                               |     |                         |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| <b>Test Case Name:</b>      |       | TC_31_2_1_7_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                               |     |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                               |     |                         |
| <b>Purpose:</b>             |       | <p>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.</p> <p>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).</p>                                                                                                                                                                                       |                                                                                                                                               |     |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                               |     |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CRef                                                                                                                                          | V   | Comments                |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                               |     |                         |
| 2                           |       | +BasicServiceMT(TSPX_MTBscSvcE,<br>TSPX_MTChRateE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                               |     |                         |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_ImmAss, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                                                                                                                               |     |                         |
| 4                           |       | LIDL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PgReq1(TCV_PgCh,<br>TCV_Pgg,<br>PgReqTp1_01)                                                                                                  |     |                         |
| 5                           |       | L?DL_RacInChRq (TCV_Rr :=<br>DL_RacInChRq.msg.ecau_rrf, TCV_Fn :=<br>DL_RacInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ChReq(ChRequest_1<br>7)                                                                                                                       |     |                         |
| 6                           |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                               |     | To match ChReq retrans. |
| 7                           |       | LIDL_UdatRqImmAss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(0))) |     |                         |
| 8                           |       | L?DL_EstInPgRes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PagingRes(PagingRe<br>s_01)                                                                                                                   |     |                         |
| 9                           |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                               |     | Restore Normal default  |
| 10                          |       | (TCV_Setup_mt.fie :=<br>facility Etsndiei(NotificationSS_04))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                               |     |                         |
| 11                          |       | LIDL_DatRqSetup                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SetupSnd(TCV_ch,<br>TCV_Setup_mt)                                                                                                             |     | 2.                      |
| 12                          |       | LIDL_DatRqCcstEnq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CCStESnd(TCV_ch,<br>CCStatusEq_01(TI_0<br>2))                                                                                                 |     |                         |
| 13                          |       | L?DL_DatInCcst                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CCStRcv(TCV_chTch<br>, CCStatus_14(TI_01,<br>C_U6))                                                                                           | (P) |                         |
| 14                          |       | (TCV_Res :=<br>OO_SSresultCHK(C_Notify<br>CFNRc))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                               |     |                         |
| 15                          |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                               | (P) |                         |
| 16                          |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                               |     |                         |
| 17                          |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                               | (F) |                         |
| 18                          |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                               |     |                         |
| 19                          |       | <b>localtree</b><br>LIDL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | RelComSnd(TCV_ch,<br>ReleaseCmp_08(TI_0<br>2))                                                                                                |     |                         |
| 20                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                               |     |                         |

**Detailed Comments:**

1. To setup a physical channel as BCCH, CCCH and SDCCH4.
2. To send a setup message containing facility IE (notification, forwarded call).

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Case Name:</b>      |       | TC_31_6_1_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| <b>Purpose:</b>             |       | <p>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.</p> <p>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.</p> <p>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.</p> |      |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CRef | V | 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_Immss, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECl_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, 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                           |       | (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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
|                             |       | <b>execution1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 11                          |       | +EstablishFacMO(90000, FwdChAdvSS_01)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |          |
| 12                          |       | +localtree("43")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
|                             |       | <b>execution2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 13                          |       | +EstablishFacMO(90000, FwdChAdvSS_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |          |
| 14                          |       | +localtree("100")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
|                             |       | <b>execution3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 15                          |       | +EstablishFacMO(90000, FwdChAdvSS_03)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |          |
| 16                          |       | +localtree("2000")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   |          |
|                             |       | <b>execution4</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 17                          |       | +EstablishFacMO(90000, FwdChAdvSS_04)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |          |
| 18                          |       | +localtree("89 or 90")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |   |          |
|                             |       | <b>execution5</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 19                          |       | +EstablishFacMO(90000, FwdChAdvSS_05)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |          |
| 20                          |       | +localtree("50 or 62.5")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   |          |

|    |                                  |                                                                                       |     |
|----|----------------------------------|---------------------------------------------------------------------------------------|-----|
| 21 | <b>localtree(val:IA5String)</b>  |                                                                                       |     |
| 22 | ?TIMEOUT T_dly<br>L!DL_DatRqDisc | DiscSnd(TCV_chTch,<br>DisconnS(TCV_TI,<br>Cause_01,<br>ProgInd_omit,<br>UuInfo_omit)) |     |
| 23 | L?DL_DatInRel                    | ReleaseRcv(Release<br>_02)                                                            |     |
| 24 | LIDL_DatRqRelCmp                 | RelComSnd(TCV_ch<br>Tch,<br>ReleaseCmp_08(TCV<br>_TI))                                |     |
| 25 | (TCV_Res := OO_ACMIncCHK(val))   |                                                                                       |     |
| 26 | [TCV_Res]                        |                                                                                       | (P) |
| 27 | [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 check whether the increment of the value of ACM on SIM is the expected value.

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                     |     |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_31_6_1_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                     |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                     |     |          |
| <b>Purpose:</b>             |       | <p>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.</p> <p>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.</p>                                       |                                                                     |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                     |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                                | V   | Comments |
| 1                           |       | START T_guard(1800)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                     |     |          |
| 2                           |       | +BasicServiceMT(TSPX_MTBscSvcA, TSPX_MTChRateA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                     |     |          |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_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                           |       | +ltree_body                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                     |     |          |
|                             |       | <b>ltree_body</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                     |     |          |
| 7                           |       | +execution(FwdChAdvSS_06, "0")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                     |     |          |
| 8                           |       | +execution(FwdChAdvSS_07, "100")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                     |     |          |
| 9                           |       | +execution(FwdChAdvSS_08, "43")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                     |     |          |
| 10                          |       | +execution(FwdChAdvSS_09, "89 or 90")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                     |     |          |
| 11                          |       | +execution(FwdChAdvSS_10, "50 or 62.5")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                     |     |          |
|                             |       | <b>execution(comp:Component_T; para:IA5String)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                     |     |          |
| 12                          |       | +start                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                     |     |          |
| 13                          |       | L!DL_DatRqFac START T_dly(90000), START T_dly1(10000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | FacilitySnd(TCV_chTch, FacilityPdu_25(TI_02, facilityIetsnd(comp))) |     | 2.       |
| 14                          |       | L?DL_DatInFac ( TCV_Fn1 := DL_DatInFac.fn) CANCEL T_dly1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | FacilityRcv(FacilityPdu_26(TI_01, facilityIercv(FwdChAdvRslt_01)))  | (P) | 6.       |
| 15                          |       | (TCV_Fn := OM_ReturnFn(TCV_chTch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                     |     | 5.       |
| 16                          |       | L!DL_DatRqConnAck                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ConnAckSnd(TCV_chTch, ConnectAck_01(TI_02))                         |     |          |
| 17                          |       | +Check_Time(C_T_Wait_FAC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                     |     |          |
| 18                          |       | +post(para)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                     |     |          |
| 19                          |       | ?TIMEOUT T_dly1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                     | (F) | 3.       |
| 20                          |       | +PostLinkRelEnd(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                     |     |          |
|                             |       | <b>start</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                     |     |          |

|    |                                                                                       |  |                                                                                      |        |
|----|---------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------|--------|
| 21 | +PreEstRRConn(TCV_slot, TCV_tsc, TimingAdv(0))                                        |  |                                                                                      |        |
| 22 | L!DL_DatRqSetup                                                                       |  | SetupSnd(TCV_ch,<br>TCV_Setup_mt)                                                    |        |
| 23 | +AssCmdGen(TCV_cellid, TCV_ChRate,<br>TSPX_TmSltDef, TSPX_TscDef,<br>TSPX_TCHHSubDef) |  |                                                                                      |        |
| 24 | L?DL_DatInCallCo(TCV_CallCfm:=DL_DatInCal<br>ICo.msg)                                 |  | CallCfm(CallConfirm_<br>01(TI_01))                                                   |        |
| 25 | +AssCh_complete(TCV_ch, TCV_chTch,<br>TCV_AssCmd)                                     |  |                                                                                      |        |
| 26 | L?DL_DatInAlert                                                                       |  | AlertRcv(AlertingInd_<br>01( TI_01))                                                 |        |
| 27 | (TCV_Null:=OO_HookOff())                                                              |  |                                                                                      |        |
| 28 | L?DL_DatInConn                                                                        |  | ConnRcv(Connect_01<br>(TI_01))                                                       |        |
| 29 | L?DL_DatInConn                                                                        |  | ConnRcv(Connect_01<br>(TI_01))                                                       |        |
|    | <b>post(para:IA5String)</b>                                                           |  |                                                                                      |        |
| 30 | ?TIMEOUT T_dly                                                                        |  |                                                                                      |        |
| 31 | L!DL_DatRqDisc                                                                        |  | DiscSnd(TCV_chTch,<br>DisconnS(TI_02,<br>Cause_01,<br>ProgInd_omit,<br>UuInfo_omit)) |        |
| 32 | L?DL_DatInRel                                                                         |  | ReleaseRcv(Release<br>_02)                                                           |        |
| 33 | LIDL_DatRqRelCmp                                                                      |  | RelComSnd(TCV_ch<br>Tch,<br>ReleaseCmp_08(TI_0<br>2))                                |        |
| 34 | +PostMainLinkRel(TCV_chTch)                                                           |  |                                                                                      |        |
| 35 | (TCV_Res := OO_ACMIncCHK(para))                                                       |  |                                                                                      |        |
| 36 | [TCV_Res]                                                                             |  |                                                                                      | (P) 4. |
| 37 | [NOT TCV_Res]                                                                         |  |                                                                                      | (F)    |

**Detailed Comments:**

1. To read and note the value of ACM on SIM at the beginning of the test,
2. To send Facility IE of ForwardChargeAdvice using definite form mixed with indefinite form.
3. The expected FACILITY message does not return, fail.
4. To check whether the increment of the value of ACM on SIM is correct.
5. Get the first frame number for transmitting of FACILITY message containing AOC information.
6. TCV\_Fn1 contains the first frame number of the received FACILITY message with AOC acknowledge from mobile.



| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                        |   |                         |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---|-------------------------|
| <b>Test Case Name:</b>      |       | TC_31_6_1_5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                        |   |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                        |   |                         |
| <b>Purpose:</b>             |       | 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.<br><br>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                                                                          |                                                                                                                        |   |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                        |   |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                                                                                                   | V | 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_NECl_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, 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                           |       | (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                           |       | +Itree_body                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                        |   |                         |
| 7                           |       | <b>Itree_body</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                        |   |                         |
| 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. |
| 11                          |       | LIDL_UdatRqImmass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0))) |   |                         |
| 12                          |       | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CMSerReq(CMServiceReq_01)                                                                                              |   |                         |
| 13                          |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                        |   | Restore Normal default  |
| 14                          |       | LIDL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CMSerAcp(TCV_ch, CMServiceAcp_01)                                                                                      |   |                         |
| 15                          |       | +RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                        |   |                         |
| 16                          |       | LIDL_DatRqCallProc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CallProc(TCV_ch, TCV_CallProc)                                                                                         |   |                         |
| 17                          |       | +AssCmdGen(TCV_cellid, TCV_ChRate, TSPX_TmSltDef, TSPX_TscDef, TSPX_TCHHSubDef)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                        |   |                         |
| 18                          |       | +AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                        |   |                         |
| 19                          |       | LIDL_DatRqAlert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | AlertSnd(TCV_chTch, Alerting_01(TCV_TI))                                                                               |   |                         |

|    |                                                   |                                                                           |    |
|----|---------------------------------------------------|---------------------------------------------------------------------------|----|
| 19 | LIDL_DatRqConn                                    | ConnSnd(TCV_chTch, Connect_02(TCV_TI))                                    |    |
| 20 | +continue                                         |                                                                           |    |
|    | <b>continue</b>                                   |                                                                           |    |
| 21 | +localtree(FwdChAdvSS_11, 90000)                  |                                                                           |    |
| 22 | +localtree(FwdChAdvSS_12, 100000)                 |                                                                           |    |
| 23 | LIDL_DatRqDisc                                    | DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_omit, UuInfo_omit)) |    |
| 24 | L?DL_DatInRel                                     | ReleaseRcv(Release_02)                                                    |    |
| 25 | LIDL_DatRqRelCmp                                  | RelComSnd(TCV_chTch, ReleaseCmp_08(TCV_TI))                               |    |
| 26 | +PostMainLinkRel(TCV_chTch)                       |                                                                           |    |
| 27 | +post                                             |                                                                           |    |
|    | <b>localtree(comp:Component_T; t:INTEGER)</b>     |                                                                           |    |
| 28 | LIDL_DatRqFac START T_dly(t), START T_dly1(10000) | FacilitySnd(TCV_chTch, FacilityPdu_25(TCV_TI, facility!Etsnd(comp)))      | 2. |
| 29 | +AOC_CHK_FAC(TCV_TI0)                             |                                                                           |    |
| 30 | ?TIMEOUT T_dly                                    |                                                                           |    |
|    | <b>post</b>                                       |                                                                           |    |
| 31 | (TCV_Res := OO_ACMIncCHK("65"))                   |                                                                           | 3. |
| 32 | [TCV_Res]                                         | (P)                                                                       |    |
| 33 | [NOT TCV_Res]                                     | (F)                                                                       |    |

**Detailed Comments:**

1. To read and note the value of ACM on SIM at the beginning of the test,
2. To send second CAI.
3. To check whether the increment of the value of ACM on SIM is 65.

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |                                                                           |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|---------------------------------------------------------------------------|
| <b>Test Case Name:</b>      |       | TC_31_6_1_6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |   |                                                                           |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |                                                                           |
| <b>Purpose:</b>             |       | <p>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.</p> <p>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.</p>                                                                                                                   |      |   |                                                                           |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |                                                                           |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Cref | V | 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_NECl_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, 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_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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |   |                                                                           |
|                             |       | <b>execution1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |                                                                           |
| 9                           |       | +start(FwdChAdvSS_13)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |                                                                           |
| 10                          |       | LIDL_DatRqDisc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   | DiscSnd(TCV_chTch, DisconnS(TCV_TI, Cause_01, ProgInd_omit, UuInfo_omit)) |
| 11                          |       | L?DL_DatInRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   | ReleaseRcv(Release_02)                                                    |
| 12                          |       | LIDL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   | RelComSnd(TCV_ch Tch, ReleaseCmp_08(TCV_TI))                              |
| 13                          |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |                                                                           |
|                             |       | <b>execution2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |                                                                           |
| 14                          |       | +start(FwdChAdvSS_14)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |                                                                           |
| 15                          |       | LIDL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   | RelComSnd(TCV_ch Tch, ReleaseCmp_08(TCV_TI))                              |
| 16                          |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |                                                                           |
|                             |       | <b>execution3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |                                                                           |
| 17                          |       | +start(FwdChAdvSS_14)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |                                                                           |
| 18                          |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |                                                                           |
|                             |       | <b>localtree</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |                                                                           |

|                                |                                                                                          |                                                                                                                                               |     |                         |
|--------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| 19                             | +PostMainLinkRel(TCV_chTch)                                                              |                                                                                                                                               |     |                         |
| 20                             | (TCV_Res := OO_ACMIncCHK("20"))                                                          |                                                                                                                                               |     | 4.                      |
| 21                             | [TCV_Res]                                                                                |                                                                                                                                               | (P) |                         |
| 22                             | [NOT TCV_Res]                                                                            |                                                                                                                                               | (F) |                         |
| <b>start(comp:Component_T)</b> |                                                                                          |                                                                                                                                               |     |                         |
| 23                             | +InitCall(TCV_Service)                                                                   |                                                                                                                                               |     |                         |
| 24                             | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)         | ChReq(ChRequest_1<br>5)                                                                                                                       |     |                         |
| 25                             | ACTIVATE(OtherEventsFail_02)                                                             |                                                                                                                                               |     | To match ChReq retrans. |
| 26                             | LIDL_UdatRqImmass                                                                        | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(0))) |     |                         |
| 27                             | L?DL_EstInCmsRq                                                                          | CMSerReq(CMServic<br>eReq_01)                                                                                                                 |     |                         |
| 28                             | ACTIVATE(OtherEventsFail)                                                                |                                                                                                                                               |     | Restore Normal default  |
| 29                             | LIDL_DatRqCmsAcp                                                                         | CMSerAcp(TCV_ch,<br>CMSerAcp_01)                                                                                                              |     |                         |
| 30                             | +RcvSetupOrEsetup(TCV_Setup_mo,<br>TCV_Esetup, TCV_Ecall)                                |                                                                                                                                               |     |                         |
| 31                             | LIDL_DatRqCallProc                                                                       | CallProc(TCV_ch,<br>TCV_CallProc)                                                                                                             |     |                         |
| 32                             | +AssCmdGen(TCV_cellid,<br>TCV_ChRate, TSPX_TmSlTDef,<br>TSPX_TscDef,<br>TSPX_TCHHSubDef) |                                                                                                                                               |     |                         |
| 33                             | +AssCh_complete(TCV_ch,<br>TCV_chTch, TCV_AssCmd)                                        |                                                                                                                                               |     |                         |
| 34                             | LIDL_DatRqAlert                                                                          | AlertSnd(TCV_chTch,<br>Alerting_01(TCV_TI))                                                                                                   |     |                         |
| 35                             | LIDL_DatRqFac START<br>T_dly(90000)                                                      | FacilitySnd(TCV_chT<br>ch,<br>FacilityPdu_25(TCV_<br>TI,<br>facilityIEtsnd(comp)))                                                            |     | 2.                      |
| 36                             | LIDL_DatRqConn                                                                           | ConnSnd(TCV_chTch<br>,<br>Connect_02(TCV_TI))                                                                                                 |     |                         |
| 37                             | +branch                                                                                  |                                                                                                                                               |     |                         |
| 38                             | ?TIMEOUT T_dly                                                                           |                                                                                                                                               |     |                         |
| <b>branch</b>                  |                                                                                          |                                                                                                                                               |     |                         |
| 39                             | L?DL_DatInFac                                                                            | FacilityRcv(FacilityPd<br>u_26(TCV_TI0,<br>facilityIErcv(<br>FwdChAdvRslt_01)))                                                               | (P) | 3.                      |
| 40                             | L?DL_DatInConnAck                                                                        | ConnAckRcv(Connect<br>Ack_02(TCV_TI0))                                                                                                        |     |                         |
| 41                             | L?DL_DatInConnAck                                                                        | ConnAckRcv(Connect<br>Ack_02(TCV_TI0))                                                                                                        |     |                         |
| 42                             | L?DL_DatInFac                                                                            | FacilityRcv(FacilityPd<br>u_26(TCV_TI0,<br>facilityIErcv(<br>FwdChAdvRslt_01)))                                                               | (P) | 3.                      |

**Detailed Comments:**

1. To read and note the value of ACM on SIM at the beginning of the test,
2. To send Facility IE of ForwardChargeAdvice using definite form mixed with indefinite form.
3. The expected FACILITY message received, pass.
4. To check whether the increment of the value of ACM on SIM is 20.

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                          |   |                              |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|---|------------------------------|
| <b>Test Case Name:</b>      |       | TC_31_6_1_7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                          |   |                              |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                          |   |                              |
| <b>Purpose:</b>             |       | <p>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.</p> <p>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.</p> |                                                                          |   |                              |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                          |   |                              |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CRef                                                                     | V | 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_NECl_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                          |   |                              |
| 7                           |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                          |   |                              |
|                             |       | <b>localtree</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                          |   |                              |
| 8                           |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                          |   | Place the first call on hold |
| 9                           |       | L?DL_DatInHold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | HoldRcv(Holdpdu_01(TCV_TI0))                                             |   |                              |
| 10                          |       | LIDL_DatRqHoldAck                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | HoldAckSnd(TCV_chTch, HoldAckpdu_01(TCV_TI))                             |   |                              |
| 11                          |       | L?DL_DatInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CMSerDatReq(CMSer viceReq_01)                                            |   |                              |
| 12                          |       | LIDL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CMSerAcp(TCV_chTch, CMSer viceAcp_01)                                    |   |                              |
| 13                          |       | +SetupRcvMo2(SetupInd_01)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                          |   |                              |
| 14                          |       | LIDL_DatRqCallProc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CallProc(TCV_chTch, TCV_CallProc)                                        |   |                              |
| 15                          |       | LIDL_DatRqAlert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | AlertSnd(TCV_chTch, Alerting_01(TCV_TI2))                                |   |                              |
| 16                          |       | LIDL_DatRqConn START T_dly2(90000), START T_dly1(10000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ConnSnd(TCV_chTch, Connect_05(TCV_TI2, facilityIEtsndie(FwdChAdvSS_16))) |   | 3.                           |
| 17                          |       | +AOC_CHK_FAC(TCV_TI1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                          |   |                              |
| 18                          |       | +localtree1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                          |   |                              |
|                             |       | <b>localtree1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                          |   |                              |
| 19                          |       | ?TIMEOUT T_dly2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                          |   |                              |

|                                                                                                                                                                                                                                                                                                                                                                                                            |                                 |                                                                                   |     |    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------|-----|----|
| 20                                                                                                                                                                                                                                                                                                                                                                                                         | +releasecall(TCV_TI2)           |                                                                                   |     | 4. |
| 21                                                                                                                                                                                                                                                                                                                                                                                                         | ?TIMEOUT T_dly                  |                                                                                   |     |    |
| 22                                                                                                                                                                                                                                                                                                                                                                                                         | +releasecall(TCV_TI)            |                                                                                   |     | 5. |
| 23                                                                                                                                                                                                                                                                                                                                                                                                         | +releaselink                    |                                                                                   |     |    |
|                                                                                                                                                                                                                                                                                                                                                                                                            | <b>releasecall(ti:TI)</b>       |                                                                                   |     |    |
| 24                                                                                                                                                                                                                                                                                                                                                                                                         | L!DL_DatRqDisc                  | DiscSnd(TCV_chTch,<br>DisconnS(ti,<br>Cause_01,<br>ProgInd_omit,<br>UuInfo_omit)) |     |    |
| 25                                                                                                                                                                                                                                                                                                                                                                                                         | L?DL_DatInRel                   | ReleaseRcv(Release<br>_02)                                                        |     |    |
| 26                                                                                                                                                                                                                                                                                                                                                                                                         | L!DL_DatRqRelCmp                | RelComSnd(TCV_ch<br>Tch,<br>ReleaseCmp_08(ti))                                    |     |    |
|                                                                                                                                                                                                                                                                                                                                                                                                            | <b>releaselink</b>              |                                                                                   |     |    |
| 27                                                                                                                                                                                                                                                                                                                                                                                                         | +PostMainLinkRel(TCV_chTch)     |                                                                                   |     |    |
| 28                                                                                                                                                                                                                                                                                                                                                                                                         | (TCV_Res := OO_ACMIncCHK("54")) |                                                                                   |     | 6. |
| 29                                                                                                                                                                                                                                                                                                                                                                                                         | [TCV_Res]                       |                                                                                   | (P) |    |
| 30                                                                                                                                                                                                                                                                                                                                                                                                         | [NOT TCV_Res]                   |                                                                                   | (F) |    |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                  |                                 |                                                                                   |     |    |
| <ol style="list-style-type: none"> <li>1. To read and note the value of ACM on SIM at the beginning of the test,</li> <li>2. To send Facility IE of ForwardChargeAdvice using definite form mixed with indefinite form.</li> <li>3. To send second CAI.</li> <li>4. To release call C.</li> <li>5. To release call B.</li> <li>6. To check whether the increment of the ACM value on SIM is 54.</li> </ol> |                                 |                                                                                   |     |    |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                          |   |          |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---|----------|
| <b>Test Case Name:</b>      |       | TC_31_6_1_8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                          |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                          |   |          |
| <b>Purpose:</b>             |       | <p>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.</p> <p>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.</p>             |                                                                                          |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                          |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CRef                                                                                     | V | Comments |
| 1                           |       | START T_guard(600)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                          |   |          |
| 2                           |       | +BasicServiceMO(TSPX_MOBscSvcI,<br>TSPX_MOChRateI)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                          |   |          |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECl_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                                                                          |   |          |
| 4                           |       | +CCConfigTCH_nociph(TSPX_TCHHSubDef,<br>C_Ass, TSPX_TmSlitDef, TSPX_TscDef,<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3, TCV_ChMod.mode, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                          |   |          |
| 5                           |       | (TCV_Null := OO_ACMReading())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                          |   | 1.       |
| 6                           |       | +EstablishFacMO(180000,<br>FwdChAdvSS_17)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                          |   |          |
| 7                           |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                          |   |          |
| <b>localtree</b>            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                          |   |          |
| 8                           |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                          |   | 3.       |
| 9                           |       | L?DL_DatInHold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                          |   |          |
| 10                          |       | LIDL_DatRqHoldAck                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | HoldRcv(Holdpdu_01(<br>TCV_TI0))                                                         |   |          |
| 11                          |       | L?DL_DatInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | HoldAckSnd(TCV_ch<br>Tch,<br>HoldAckpdu_01(TCV<br>_TI))                                  |   |          |
| 12                          |       | LIDL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CMSerDatReq(CMSer<br>viceReq_01)                                                         |   |          |
| 13                          |       | +SetupRcvMo2(SetupInd_01)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CMSerAcp(TCV_chTch,<br>CMSerAcp_01)                                                      |   |          |
| 14                          |       | LIDL_DatRqCallProc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CallProc(TCV_chTch,<br>TCV_CallProc)                                                     |   |          |
| 15                          |       | LIDL_DatRqAlert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | AlertSnd(TCV_chTch,<br>Alerting_01(TCV_TI2<br>)                                          |   |          |
| 16                          |       | LIDL_DatRqConn START<br>T_dly2(90000), START<br>T_dly1(10000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ConnSnd(TCV_chTch<br>,<br>Connect_05(TCV_TI2<br>, facilityIetsndiei(<br>FwdChAdvSS_18))) |   | 4.       |
| 17                          |       | +AOC_CHK_FAC(TCV_TI1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                          |   |          |
| 18                          |       | +localtree1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                          |   |          |
| <b>localtree1</b>           |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                          |   |          |
| 19                          |       | (TCV_Null := OO_MptyCall())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                          |   | 5.       |

|    |                                                                                                                                                                                                                                                                                               |                                                                                                   |     |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----|
| 20 | L?DL_DatInFac (TCV_Comp :=<br>DL_DatInFac.msg.fie.components_1, TCV_n :=<br>OC_PosinSet(TCV_Comp, BldMptySS_01),<br>TCV_Invkld :=<br>OC_Asn1intToOct(TCV_Comp.[TCV_n].registerSS<br>Components.registerSS_InvokeComp.invokeID, 1),<br>TCV_TI3 := DL_DatInFac.msg.ti, TCV_TI3.ti_f :=<br>'1'B) | FacilityRcv(FacilityPdu_26(TCV_TI0,<br>facilityErcv(<br>BldMptySS_01)))                           |     |
| 21 | +ltree_release                                                                                                                                                                                                                                                                                |                                                                                                   |     |
| 22 | L?DL_DatInFac (TCV_Comp :=<br>DL_DatInFac.msg.fie.components_1, TCV_n :=<br>OC_PosinSet(TCV_Comp, BldMptySS_01),<br>TCV_Invkld :=<br>OC_Asn1intToOct(TCV_Comp.[TCV_n].registerSS<br>Components.registerSS_InvokeComp.invokeID, 1),<br>TCV_TI3 := DL_DatInFac.msg.ti, TCV_TI3.ti_f :=<br>'1'B) | FacilityRcv(FacilityPdu_26(TCV_TI1,<br>facilityErcv(<br>BldMptySS_01)))                           |     |
| 23 | +ltree_release                                                                                                                                                                                                                                                                                |                                                                                                   |     |
| 24 | <b>ltree_release</b><br>L!DL_DatRqFac                                                                                                                                                                                                                                                         | FacilitySnd(TCV_ch,<br>FacilityPdu_25(TCV_TI3,<br>facilityEtsnd(BuildMptySSRslt_01(TCV_Invkld)))) |     |
| 25 | ?TIMEOUT T_dly2                                                                                                                                                                                                                                                                               |                                                                                                   |     |
| 26 | +releasecall(TCV_TI2)                                                                                                                                                                                                                                                                         |                                                                                                   |     |
| 27 | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                |                                                                                                   |     |
| 28 | +releasecall(TCV_TI)                                                                                                                                                                                                                                                                          |                                                                                                   |     |
| 29 | +releaselink                                                                                                                                                                                                                                                                                  |                                                                                                   |     |
| 30 | <b>releasecall(ti: TI)</b><br>L!DL_DatRqDisc                                                                                                                                                                                                                                                  | DiscSnd(TCV_chTch,<br>DisconnS(ti,<br>Cause_01,<br>ProgInd_omit,<br>UuInfo_omit))                 |     |
| 31 | L?DL_DatInRel                                                                                                                                                                                                                                                                                 | ReleaseRcv(Release_02)                                                                            |     |
| 32 | L!DL_DatRqRelCmp                                                                                                                                                                                                                                                                              | RelComSnd(TCV_chTch,<br>ReleaseCmp_08(ti))                                                        |     |
| 33 | <b>releaselink</b><br>+PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                             |                                                                                                   |     |
| 34 | (TCV_Res := OO_ACMIncCHK("134"))                                                                                                                                                                                                                                                              |                                                                                                   |     |
| 35 | [TCV_Res]                                                                                                                                                                                                                                                                                     |                                                                                                   | (P) |
| 36 | [NOT TCV_Res]                                                                                                                                                                                                                                                                                 |                                                                                                   | (F) |

6.

**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 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 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |     |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_31_6_2_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                  |     |          |
| <b>Purpose:</b>             |       | 1) To verify that when the SIM is removed from the ME during an active AOCC call the ME immediately terminates the call.<br><br>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.                                                                                                                                                                                                                                                                    |                                                  |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                             | V   | 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_NECL_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, 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                           | body  | +EstablishFacMO(90000, FwdChAdvSS_19)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                  |     | 2.       |
| 7                           |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                  |     |          |
| <b>localtree</b>            |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |     |          |
| 8                           |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |     |          |
| 9                           |       | START T_dly(60000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                  |     |          |
| 10                          |       | (TCV_Null := OO_SIMRmv())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                  |     | 3.       |
| 11                          |       | L?DL_DatInDisc CANCEL T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | DiscRcv(TCV_chTch, DisconnR(TCV_T10, Cause_Def)) |     |          |
| 12                          |       | L!DL_DatRqRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ReleaseSnd(TCV_chTch, Release_03(TCV_TI))        |     |          |
| 13                          |       | L?DL_DatInRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | RelComRcv(Release Cmp_03(TI_01))                 | (P) |          |
| 14                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |     |          |
| 15                          |       | +localtree1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |     |          |
| 16                          |       | L?DL_DatInRelCmp CANCEL T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | RelComRcv(Release Cmp_03(TCV_T10))               | (P) |          |
| 17                          |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |     |          |
| 18                          |       | +localtree1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |     |          |
| 19                          |       | L?DL_RelIn CANCEL T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DLRelInd_01                                      | (P) |          |
| 20                          |       | +localtree1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |     |          |
| 21                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  | (F) |          |
| 22                          |       | +PostLinkRelEnd(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                  |     |          |
| <b>localtree1</b>           |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |     |          |
| 23                          |       | (TCV_Res := OO_ACMIncCHK("30"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |     | 4.       |
| 24                          |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                  | (P) |          |
| 25                          |       | [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,<br>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:** GSM\_L3\_MS\_v4180/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.  
**Default:** OtherEventsFail

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CRef | V   | Comments |
|----|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|----------|
| 1  |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |     |          |
| 2  |       | +BasicServiceMO(TSPX_MOBscSvcE,<br>TSPX_MOChRateE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |     |          |
| 3  |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immss, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |      |     |          |
| 4  |       | +CCConfigTCH_nociph(TSPX_TCHHSubDef,<br>C_Ass, TSPX_TmSltDef, TSPX_TscDef,<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3, TCV_ChMod.mode, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                                        |      |     |          |
| 5  |       | (TCV_Null := OO_ACMReading())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |     | 1.       |
| 6  |       | +execution1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |     |          |
| 7  |       | +execution2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |     |          |
|    |       | <b>execution1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |     |          |
| 8  |       | +main                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |     |          |
| 9  |       | (TCV_Null := OO_SwitchOff())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |     | 3.       |
| 10 |       | (TCV_Res := OO_ACMIncCHK("30"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |     | 4.       |
| 11 |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | (P) |          |
| 12 |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | (F) |          |
|    |       | <b>execution2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |     |          |
| 13 |       | (TCV_Null := OO_SwitchOn())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |     | 5.       |
| 14 |       | START T_dly(20000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |     |          |
| 15 |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |     |          |
| 16 |       | +main                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |     |          |
| 17 |       | (TCV_Null := OO_PowerDown())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |     | 6.       |
| 18 |       | (TCV_Res := OO_ACMIncCHK("30"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |     | 4.       |
| 19 |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | (P) |          |
| 20 |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | (F) |          |
|    |       | <b>main</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |     |          |
| 21 |       | +EstablishFacMO(90000, FwdChAdvSS_19)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |     | 2.       |
| 22 |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |     |          |

**Detailed Comments:**

1. To read and note the value of ACM on SIM at the beginning of the test,
2. To send Facility IE of ForwardChargeAdvice using definite form mixed with indefinite form.
3. To switch off the MS 90 seconds after CAI sent.
4. To check whether the increment of the value of ACM on SIM is 30.
5. To switch on the MS and wait for the MS back to idle state.
6. To remove battery pack 90 seconds after CAI sent.

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |     |          |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_31_6_2_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |     |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                                                                                                                             |      |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CRef | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |     |          |
| 2                           |       | +BasicServiceMO(TSPX_MOBscSvcH,<br>TSPX_MOChRateH)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |     |          |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |      |     |          |
| 4                           |       | +CCConfigTCH_nociph(TSPX_TCHHSubDef,<br>C_Ass, TSPX_TmSltDef, TSPX_TscDef,<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3, TCV_ChMod.mode, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                                         |      |     |          |
| 5                           |       | (TCV_Null := OO_ACMReading())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |     | 1.       |
| 6                           |       | +EstablishFacMO(90000,<br>FwdChAdvSS_19)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |     | 2.       |
| 7                           |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |     |          |
| 8                           |       | (TCV_Null := OM_StopCell(C_CellA))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |     | 3.       |
| 9                           |       | (TCV_Res := OO_ACMIncCHK("30"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |     | 4.       |
| 10                          |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      | (P) |          |
| 11                          |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      | (F) |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To read and note the value of ACM on SIM at the beginning of the test,</li> <li>2. To send Facility IE of ForwardChargeAdvice using definite form mixed with indefinite form.</li> <li>3. To switch off the cell A 90 seconds after CAI sent.</li> <li>4. To check whether the increment of the value of ACM on SIM is 30.</li> </ol>                                                                                                                                                                                                                                    |      |     |          |

### Test Case Dynamic Behaviour

**Test Case Name:** TC\_31\_6\_2\_4

**Group:** GSM\_L3\_MS\_v4180/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, 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

**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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                             | V   | Comments |
|----|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----|----------|
| 1  |       | START T_guard(600)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                  |     |          |
| 2  |       | +BasicServiceMO(TSPX_MOBscSvcl, TSPX_MOChRate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                  |     |          |
| 3  |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immss, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, 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_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2) |                                                  |     |          |
| 4  |       | +CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                      |                                                  |     |          |
| 5  |       | (TCV_Null := OO_ACMSetting())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |     | 1.       |
| 6  |       | +execution1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                  |     |          |
| 7  |       | +execution2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                  |     |          |
| 8  |       | +execution3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                  |     |          |
|    |       | <b>execution1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                  |     |          |
| 9  |       | +EstablishFacMO(100000, FwdChAdvSS_20)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                  |     | 2.       |
| 10 |       | L?DL_DatInDisc READTIMER T_dly(TCV_Time), CANCEL T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DiscRcv(TCV_chTch, DisconnR(TCV_T10, Cause_Def)) |     | 3.       |
| 11 |       | [(88000 <= TCV_Time) AND (TCV_Time <= 92000)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  | (P) | 4.       |
| 12 |       | +localtree1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                  |     |          |
| 13 |       | [(88000 > TCV_Time) OR (TCV_Time > 92000)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                  | (F) |          |
| 14 |       | +localtree1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                  |     |          |
|    |       | <b>localtree1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                  |     |          |
| 15 |       | L!DL_DatRqRel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ReleaseSnd(TCV_chTch, Release_08(TCV_T1))        |     |          |
| 16 |       | L?DL_DatInRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RelComRcv(ReleaseCmp_03(TCV_T10))                |     |          |
| 17 |       | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                  |     |          |
| 18 |       | (TCV_Res := OO_ACMIncCHK("2"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                  |     | 5.       |
| 19 |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  | (P) |          |
| 20 |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  | (F) |          |

|                                                                                               |                                                                                                                                                                                                            |                                                                                                                                               |  |                         |
|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------|
|                                                                                               | <b>execution2</b>                                                                                                                                                                                          |                                                                                                                                               |  |                         |
| 21                                                                                            | +InitCall(TCV_Service)                                                                                                                                                                                     |                                                                                                                                               |  |                         |
| 22                                                                                            | START T_dly(5000)                                                                                                                                                                                          |                                                                                                                                               |  |                         |
| 23                                                                                            | ?TIMEOUT T_dly                                                                                                                                                                                             |                                                                                                                                               |  | (P)                     |
| 24                                                                                            | L?DL_RaInChRq CANCEL T_dly                                                                                                                                                                                 | ChReq(ChRequest_0<br>2)                                                                                                                       |  | (F)                     |
|                                                                                               | <b>execution3</b>                                                                                                                                                                                          |                                                                                                                                               |  |                         |
| 25                                                                                            | +BasicServiceMO(C_EmgCall, TSPX_EmgCallRate)                                                                                                                                                               |                                                                                                                                               |  |                         |
| 26                                                                                            | +CCConfigTCH_nociph(TSPX_TCHHSubDef,<br>C_Ass, TSPX_TmSltDef, TSPX_TscDef,<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3, TCV_ChMod.mode, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd) |                                                                                                                                               |  |                         |
| 27                                                                                            | +InitCall(C_EmgCall)                                                                                                                                                                                       |                                                                                                                                               |  | 6.                      |
| 28                                                                                            | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                           | ChReq(ChRequest_1<br>6)                                                                                                                       |  |                         |
| 29                                                                                            | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                               |                                                                                                                                               |  | To match ChReq retrans. |
| 30                                                                                            | L!DL_UdatRqImmss                                                                                                                                                                                           | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(0))) |  |                         |
| 31                                                                                            | L?DL_EstInCmsRq                                                                                                                                                                                            | CMSerReq(CMServic<br>eReq_01)                                                                                                                 |  |                         |
| 32                                                                                            | ACTIVATE(OtherEventsFail)                                                                                                                                                                                  |                                                                                                                                               |  | Restore Normal default  |
| 33                                                                                            | L!DL_DatRqCmsAcp                                                                                                                                                                                           | CMSerAcp(TCV_ch,<br>CMSerAcp_01)                                                                                                              |  |                         |
| 34                                                                                            | +RcvSetupOrEsetup(TCV_Setup_m<br>o, TCV_Esetup, TCV_Ecall)                                                                                                                                                 |                                                                                                                                               |  |                         |
| 35                                                                                            | +continue1                                                                                                                                                                                                 |                                                                                                                                               |  |                         |
|                                                                                               | <b>continue1</b>                                                                                                                                                                                           |                                                                                                                                               |  |                         |
| 36                                                                                            | L!DL_DatRqCallProc                                                                                                                                                                                         | CallProc(TCV_ch,<br>TCV_CallProc)                                                                                                             |  |                         |
| 37                                                                                            | +AssCmdGen(TCV_cellid, TCV_ChRate,<br>TSPX_TmSltDef, TSPX_TscDef,<br>TSPX_TCHHSubDef)                                                                                                                      |                                                                                                                                               |  |                         |
| 38                                                                                            | +AssCh_complete(TCV_ch, TCV_chTch,<br>TCV_AssCmd)                                                                                                                                                          |                                                                                                                                               |  |                         |
| 39                                                                                            | L!DL_DatRqAlert                                                                                                                                                                                            | AlertSnd(TCV_chTch,<br>Alerting_01(TCV_TI))                                                                                                   |  |                         |
| 40                                                                                            | L!DL_DatRqConn START T_dly1(10000),<br>START T_dly(120000)                                                                                                                                                 | ConnSnd(TCV_chTch<br>,<br>Connect_05(TCV_TI,<br>facilityIEtsndiei(FwdC<br>hAdvSS_22)))                                                        |  | 7.                      |
| 41                                                                                            | +AOC_CHK_FAC(TCV_TI0)                                                                                                                                                                                      |                                                                                                                                               |  |                         |
| 42                                                                                            | ?TIMEOUT T_dly                                                                                                                                                                                             |                                                                                                                                               |  | 9.                      |
| 43                                                                                            | (TCV_Null := OO_TermCall())                                                                                                                                                                                |                                                                                                                                               |  |                         |
| 44                                                                                            | +localtree2                                                                                                                                                                                                |                                                                                                                                               |  |                         |
|                                                                                               | <b>localtree2</b>                                                                                                                                                                                          |                                                                                                                                               |  |                         |
| 45                                                                                            | L?DL_DatInDisc                                                                                                                                                                                             | DiscRcv(TCV_chTch,<br>DisconnR(TCV_TI0,<br>Cause_Def))                                                                                        |  | (P)                     |
| 46                                                                                            | L!DL_DatRqRel                                                                                                                                                                                              | ReleaseSnd(TCV_ch<br>Tch,<br>Release_08(TCV_TI))                                                                                              |  |                         |
| 47                                                                                            | L?DL_DatInRelCmp                                                                                                                                                                                           | RelComRcv(Release<br>Cmp_03(TCV_TI0))                                                                                                         |  |                         |
| 48                                                                                            | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                |                                                                                                                                               |  |                         |
| 49                                                                                            | (TCV_Res := OO_ACMIncCHK("0"))                                                                                                                                                                             |                                                                                                                                               |  | 8.                      |
| 50                                                                                            | [TCV_Res]                                                                                                                                                                                                  |                                                                                                                                               |  | (P)                     |
| 51                                                                                            | [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 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Case Name:</b>      |       | TC_31_6_2_5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |          |
| <b>Purpose:</b>             |       | <p>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.</p> <p>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.</p> <p>3) To verify that when the value stored in the ACM becomes equal to or exceeds its maximum limit,<br/>the ACMM, the receiving of calls for which the CAI is zero is uninhibited.</p> |      |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CRef | V | Comments |
| 1                           |       | START T_guard(600)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   |          |
| 2                           |       | +BasicServiceMT(TSPX_MTBscSvcA,<br>TSPX_MTChRateA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   |          |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Reestablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2)                                                                                                                                                                                                             |      |   |          |
| 4                           |       | +CCConfigTCH_nociph(TSPX_TCHHSubDef,<br>C_Ass, TSPX_TmSltDef, TSPX_TscDef,<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3, TCV_ChMod.mode, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |   |          |
| 5                           |       | (TCV_Null := OO_ACMSetting())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   | 1.       |
| 6                           |       | +execution1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| 7                           |       | +execution2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| 8                           |       | +execution3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
|                             |       | <b>execution1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| 9                           |       | +init                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |          |
| 10                          |       | +branchA(FwdChAdvSS_20)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |   |          |
| 11                          |       | +branchF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| 12                          |       | +TimerCheck                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| 13                          |       | +step20("2")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   | 5.       |
|                             |       | <b>execution2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| 14                          |       | +init                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |          |
| 15                          |       | +branchB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| 16                          |       | +branchC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| 17                          |       | +branchG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| 18                          |       | +step20("0")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   | 8.       |
| 19                          |       | +branchD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| 20                          |       | +branchG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| 21                          |       | +step20("0")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   | 8.       |
| 22                          |       | +branchE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| 23                          |       | +branchG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |   |          |
| 24                          |       | +step20("0")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   | 8.       |
|                             |       | <b>execution3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| 25                          |       | +init                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |          |

|    |                                                                                        |                                                                                    |     |                       |
|----|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----|-----------------------|
| 26 | +branchA(FwdChAdvSS_21)                                                                |                                                                                    |     |                       |
| 27 | +branchH                                                                               |                                                                                    |     |                       |
| 28 | +step20("0")                                                                           |                                                                                    |     | 8.                    |
|    | <b>init</b>                                                                            |                                                                                    |     |                       |
| 29 | +PreEstRRConn(TCV_slot, TCV_tsc, TimingAdv(0))                                         |                                                                                    |     |                       |
| 30 | L!DL_DatRqSetup                                                                        | SetupSnd(TCV_ch,<br>TCV_Setup_mt)                                                  |     |                       |
| 31 | L?DL_DatInCallCo                                                                       | CallCfm(CallConfirm_01(TI_01))                                                     |     |                       |
| 32 | +AssCmdGen(TCV_cellid, TCV_ChRate,<br>TSPX_TmSlitDef, TSPX_TscDef,<br>TSPX_TCHHSubDef) |                                                                                    |     |                       |
| 33 | +AssCh_complete(TCV_ch, TCV_chTch,<br>TCV_AssCmd)                                      |                                                                                    |     |                       |
| 34 | L?DL_DatInAlert                                                                        | AlertRcv(AlertingInd_01(TI_01))                                                    |     |                       |
| 35 | (TCV_Null := OO_HookOff())                                                             |                                                                                    |     |                       |
| 36 | L?DL_DatInConn                                                                         | ConnRcv(Connect_01(TI_01))                                                         |     |                       |
| 37 | LIDL_DatRqConnAck                                                                      | ConnAckSnd(TCV_chTch,<br>ConnectAck_01(TI_02))                                     |     |                       |
| 38 | L?DL_DatInConn                                                                         | ConnRcv(Connect_01(TI_01))                                                         |     |                       |
| 39 | LIDL_DatRqConnAck                                                                      | ConnAckSnd(TCV_chTch,<br>ConnectAck_01(TI_02))                                     |     |                       |
|    | <b>branchA(comp:Component_T)</b>                                                       |                                                                                    |     |                       |
| 40 | L!DL_DatRqFac START T_dly(120000)                                                      | FacilitySnd(TCV_chTch,<br>FacilityPdu_25(TI_02,<br>facilityIetsnd(comp)))          |     | 2., 7.                |
| 41 | L?DL_DatInFac                                                                          | FacilityRcv(FacilityPdu_26(TI_01,<br>facilityIercv(FwdChAdvRslt_01)))              | (P) |                       |
|    | <b>branchB</b>                                                                         |                                                                                    |     |                       |
| 42 | L!DL_DatRqFac                                                                          | FacilitySnd(TCV_chTch,<br>FacilityPdu_25(TI_02,<br>facilityIetsnd(FwdChAdvSS_20))) |     | 2.                    |
|    | <b>branchC</b>                                                                         |                                                                                    |     |                       |
| 43 | L?DL_DatInFac                                                                          | FacilityRcv(FacilityPdu_26(TI_01,<br>facilityIercv(FwdChAdvRslt_01)))              | (P) |                       |
| 44 | L?DL_DatInDisc                                                                         | DiscRcv(TCV_chTch,<br>DisconnR(TI_01,<br>Cause_Def))                               |     | 6.                    |
|    | <b>branchD</b>                                                                         |                                                                                    |     |                       |
| 45 | L?DL_DatInDisc                                                                         | DiscRcv(TCV_chTch,<br>DisconnR(TI_01,<br>Cause_Def))                               |     | 6.                    |
| 46 | L?DL_DatInFac                                                                          | FacilityRcv(FacilityPdu_26(TI_01,<br>facilityIercv(FwdChAdvRslt_01)))              | (P) |                       |
|    | <b>branchE</b>                                                                         |                                                                                    |     |                       |
| 47 | L?DL_DatInDisc                                                                         | DiscRcv(TCV_chTch,<br>Disconn_10(TI_01))                                           |     | 6., with ReturnResult |
|    | <b>branchF</b>                                                                         |                                                                                    |     |                       |



|                              |                                                           |                                                      |        |
|------------------------------|-----------------------------------------------------------|------------------------------------------------------|--------|
| 48                           | L?DL_DatInDisc READTIMER T_dly(TCV_Time),<br>CANCEL T_dly | DiscRcv(TCV_chTch,<br>DisconnR(TI_01,<br>Cause_Def)) | 3.     |
| 49                           | L!DL_DatRqRel                                             | ReleaseSnd(TCV_ch<br>Tch,<br>Release_08(TI_02))      |        |
| 50                           | L?DL_DatInRelCmp                                          | RelComRcv(Release<br>Cmp_03(TI_01))                  |        |
| 51                           | +PostMainLinkRel(TCV_chTch)                               |                                                      |        |
| <b>branchG</b>               |                                                           |                                                      |        |
| 52                           | L!DL_DatRqRel                                             | ReleaseSnd(TCV_ch<br>Tch,<br>Release_08(TI_02))      |        |
| 53                           | L?DL_DatInRelCmp                                          | RelComRcv(Release<br>Cmp_25(TI_01))                  |        |
| 54                           | +PostMainLinkRel(TCV_chTch)                               |                                                      |        |
| <b>branchH</b>               |                                                           |                                                      |        |
| 55                           | ?TIMEOUT T_dly                                            |                                                      | 9.     |
| 56                           | (TCV_Null := OO_TermCall())                               |                                                      |        |
| 57                           | L?DL_DatInDisc (TCV_Fn1 := DL_DatInDisc.fn)               | DiscRcv(TCV_chTch,<br>DisconnR(TI_01,<br>Cause_Def)) | 3.     |
| 58                           | L!DL_DatRqRel                                             | ReleaseSnd(TCV_ch<br>Tch,<br>Release_08(TI_02))      |        |
| 59                           | L?DL_DatInRelCmp                                          | RelComRcv(Release<br>Cmp_03(TI_01))                  |        |
| 60                           | +PostMainLinkRel(TCV_chTch)                               |                                                      |        |
| <b>step20(val:IA5String)</b> |                                                           |                                                      |        |
| 61                           | (TCV_Res := OO_ACMIncCHK(val))                            |                                                      |        |
| 62                           | [TCV_Res]                                                 |                                                      | (P)    |
| 63                           | [NOT TCV_Res]                                             |                                                      | (F)    |
| <b>TimerCheck</b>            |                                                           |                                                      |        |
| 64                           | [(88000 <= TCV_Time) AND (TCV_Time <= 92000)]             |                                                      | (P) 4. |
| 65                           | [(88000 > TCV_Time) OR (TCV_Time > 92000)]                |                                                      | (F) 4. |

**Detailed Comments:**

1. To reset the ACM = 0 and set the ACMmax to 2.
2. To send Facility IE of ForwardChargeAdvice using definite form mixed with indefinite form.
3. The call is terminated 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.
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

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_31_8_1_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Group:</b>          | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purpose:</b>        | <p>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.</p> <p>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.</p> <p>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.</p> <p>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..</p> <p>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).</p> <p>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).</p> <p>These checks are done for:<br/>all barring services, the result of the operation being sent in a RELEASE COMPLETE message</p> |
| <b>Default:</b>        | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CRef                                                                                                                   | V | 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_Reestablishment, 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 :=<br>OO_InitSS("***03*330*1234*9876*9876#"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                        |   | 2.                      |
| 4  |       | L?DL_RaclnChRq (TCV_Rr := DL_RaclnChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaclnChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ChReq(ChRequest_04)                                                                                                    |   | To match ChReq retrans. |
| 5  |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                        |   |                         |
| 6  |       | LIDL_UdatRqlmmiss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0))) |   |                         |
| 7  |       | L?DL_EstlnCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CMSerReq(CMServiceReq_08)                                                                                              |   |                         |
| 8  |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                        |   | Restore Normal default  |
| 9  |       | LIDL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CMSerAcp(TCV_ch, CMSerAcp_01)                                                                                          |   |                         |
| 10 |       | +continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                        |   |                         |
| 11 |       | <b>continue</b><br>L?DL_DatlnRegister (TCV_TI :=<br>DL_DatlnRegister.msg.ti, TCV_TI0 := TCV_TI,<br>TCV_TI.ti_f := '1'B, TCV_Comp :=<br>DL_DatlnRegister.msg.fie.components_1, TCV_n :=<br>OC_PosinSet(TCV_Comp, RegPasswdSS_01),<br>TCV_Invkld :=<br>OC_Asn1intToOct(TCV_Comp.[TCV_n].registerPass<br>wordComponents.registerPassword_InvokeComp.inv                                                                                                                                                                                                                   | Register_03(RegisterPdu_03(facilityErcvlei (RegPasswdSS_01)))                                                          |   |                         |

|                                                                                                                                                                                                                                                                                                                      |                             |                                                                                                             |       |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------|-------|--|
| 12                                                                                                                                                                                                                                                                                                                   | okeID, 1))<br>L!DL_DatRqFac | FacilitySnd(TCV_ch,<br>FacilityPdu_25_ci(TC<br>V_TI,<br>facilityEtsnd(GetPass<br>wdSS_01(TCV_Invkld<br>)))) |       |  |
| 13                                                                                                                                                                                                                                                                                                                   | L?DL_DatInFac               | FacilityRcv(FacilityPd<br>u_26_ci(TCV_TI0,<br>facilityErcv(<br>GetPasswdRslt_01)))                          | 3     |  |
| 14                                                                                                                                                                                                                                                                                                                   | L!DL_DatRqFac               | FacilitySnd(TCV_ch,<br>FacilityPdu_25_ci(TC<br>V_TI,<br>facilityEtsnd(GetPass<br>wdSS_02(TCV_Invkld<br>)))) |       |  |
| 15                                                                                                                                                                                                                                                                                                                   | L?DL_DatInFac               | FacilityRcv(FacilityPd<br>u_26_ci(TCV_TI0,<br>facilityErcv(<br>GetPasswdRslt_02)))                          | 4     |  |
| 16                                                                                                                                                                                                                                                                                                                   | L!DL_DatRqFac               | FacilitySnd(TCV_ch,<br>FacilityPdu_25_ci(TC<br>V_TI,<br>facilityEtsnd(GetPass<br>wdSS_03(TCV_Invkld<br>)))) |       |  |
| 17                                                                                                                                                                                                                                                                                                                   | L?DL_DatInFac               | FacilityRcv(FacilityPd<br>u_26_ci(TCV_TI0,<br>facilityErcv(<br>GetPasswdRslt_02)))                          | (P) 5 |  |
| 18                                                                                                                                                                                                                                                                                                                   | L!DL_DatRqRelCmp            | RelComSnd(TCV_ch,<br>ReleaseCmp_09(TCV<br>_TI,<br>facilityEtsndiei(RegP<br>asswdSSRslt_01(TCV<br>_Invkld))) |       |  |
| 19                                                                                                                                                                                                                                                                                                                   | +PostMainLinkRel(TCV_ch)    |                                                                                                             |       |  |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                            |                             |                                                                                                             |       |  |
| <ol style="list-style-type: none"> <li>1. To set up physical channel as BCCH, CCCH and SDCCH4.</li> <li>2. To initiate the Registration of password supplementary service.</li> <li>3. Received the old password.</li> <li>4. Received the new password.</li> <li>5. Received the repeat of new password.</li> </ol> |                             |                                                                                                             |       |  |

### Test Case Dynamic Behaviour

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_31_8_1_2_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Group:</b>          | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Purpose:</b>        | <p>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.</p> <p>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.</p> <p>3) To check that upon receipt of the RELEASE COMPLETE message related to the present SS transaction, the first transaction remains unaffected.</p> <p>4) To check that upon receipt of the RELEASE COMPLETE message, the MS provides the appropriate user indication (as described by the Manufacturer).</p> <p>Those checks are performed with a call transaction already established for:<br/> 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".</p> |
| <b>Default:</b>        | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CRef                                                                                                  | V   | 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_Reestablishment, 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                       | 2.  |          |
| 6  |       | (TCV_Null :=<br>OO_InitSS("***03*330*1234*9876*9877#"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                       | 3.  |          |
| 7  |       | L?DL_DatInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CMSerDatReq(CMSer viceReq_08)                                                                         |     |          |
| 8  |       | LIDL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CMSerAcp(TCV_chTc h, CMServiceAcp_01)                                                                 |     |          |
| 9  |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                       |     |          |
| 10 |       | <b>localtree</b><br>L?DL_DatInRegister (TCV_TI1 :=<br>DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI1,<br>TCV_TI2.ti_f := '1'B, TCV_Comp :=<br>DL_DatInRegister.msg.fie.components_1, TCV_n :=<br>OC_PosinSet(TCV_Comp, RegPasswdSS_01),<br>TCV_Invkld :=<br>OC_Asn1intToOct(TCV_Comp.[TCV_n].registerPass<br>wordComponents.registerPassword_InvokeComp.inv<br>okelD, 1))                                                                                                                                                                                                 | Register_03(Register<br>Pdu_03(facilityIErcviei<br>(<br>RegPasswdSS_01)))                             | (P) |          |
| 11 |       | LIDL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | RelComSnd(TCV_ch<br>Tch,<br>ReleaseCmp_09(TCV<br>_TI2,<br>facilityIEtsndiei(RegP<br>asswdSSerr_01(TCV | 4.  |          |

|                                                                                                                                                                                                                                                                                                               |                             |                                                                     |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------|-----|
| 12                                                                                                                                                                                                                                                                                                            | L!DL_DatRqCcstEnq           | _InvkId)))<br>CCStESnd(TCV_chT<br>ch,<br>CCStatusEq_01(TCV<br>_TI)) |     |
| 13                                                                                                                                                                                                                                                                                                            | L?DL_DatInCcst              | CCStRcv(TCV_chTch<br>,<br>CCStatus_14(TCV_TI<br>0, C_U10))          | (P) |
| 14                                                                                                                                                                                                                                                                                                            | +PostMainLinkRel(TCV_chTch) |                                                                     |     |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                     |                             |                                                                     |     |
| <ol style="list-style-type: none"> <li>1. To set up traffic channel.</li> <li>2. To establish a mobile originating call, bring the MS into state U10.</li> <li>3. To initiate RegisterPassword supplementary service.</li> <li>4. To reject the RegisterPassword supplementary service invocation.</li> </ol> |                             |                                                                     |     |

### Test Case Dynamic Behaviour

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_31_8_1_2_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Group:</b>          | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Purpose:</b>        | <p>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.</p> <p>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.</p> <p>3) To check that upon receipt of the RELEASE COMPLETE message related to the present SS transaction, the first transaction remains unaffected.</p> <p>4) To check that upon receipt of the RELEASE COMPLETE message, the MS provides the appropriate user indication (as described by the Manufacturer).</p> <p>Those checks are performed with a call transaction already established for :</p> <p style="padding-left: 40px;">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".</p> |
| <b>Default:</b>        | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                                                                         | V | 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_Immss, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, 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_Reestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCC4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2) |                                                                                              |   |          |
| 4  |       | +CCConfigTCH_nociph(TSPX_TCHHSubDef, C_Ass, TSPX_TmSltDef, TSPX_TscDef, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, TCV_ChMod.mode, FreqTCH_omit, FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                      |                                                                                              |   | 1.       |
| 5  |       | +Est_MO_Call(TimingAdv(0), TCV_ChRate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                              |   | 2.       |
| 6  | body  | (TCV_Null :=<br>OO_InitSS("***03*330*1234*9876*9876#"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                              |   | 3.       |
| 7  |       | L?DL_DatInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CMSerDatReq(CMSer viceReq_08)                                                                |   |          |
| 8  |       | LIDL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CMSerAcp(TCV_chTc h, CMServiceAcp_01)                                                        |   |          |
| 9  |       | +continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                              |   |          |
| 10 |       | <b>continue</b><br>L?DL_DatInRegister (TCV_TI1 :=<br>DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI1,<br>TCV_TI2.ti_f := '1'B, TCV_Comp :=<br>DL_DatInRegister.msg.fie.components_1, TCV_n :=<br>OC_PosinSet(TCV_Comp, RegPasswdSS_01),<br>TCV_Invkld :=<br>OC_Asn1intToOct(TCV_Comp.[TCV_n].registerPass wordComponents.registerPassword_InvokeComp.inv okelD, 1))                                                                                                                                                                                                     | Register_03(Register Pdu_03(facilityIercviei ( RegPasswdSS_01)))                             |   |          |
| 11 |       | LIDL_DatRqFac                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FacilitySnd(TCV_chT ch, FacilityPdu_25_ci(TCV_TI2, facilityIetsnd(GetPass wdSS_01(TCV_Invkld |   |          |

|                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                |                                                                                                                     |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----|
| 12                                                                                                                                                                                                                                                                                                                                                                                                                 | L?DL_DatInFac                                                  | FacilityRcv(FacilityPd<br>u_26_ci(TCV_TI1,<br>facilityIErcv(<br>GetPasswdRslt_01)))                                 | 4   |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                 | L!DL_DatRqRelCmp                                               | RelComSnd(TCV_ch<br>Tch,<br>ReleaseCmp_09(TCV<br>_TI2,<br>facilityIEtsndiei(RegP<br>asswdSSErr_02(TCV<br>_InvkId))) | 5.  |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                 | +MMI_indic_chk                                                 |                                                                                                                     |     |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                 | L!DL_DatRqCcstEnq                                              | CCStESnd(TCV_chT<br>ch,<br>CCStatusEq_01(TCV<br>_TI))                                                               |     |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                 | L?DL_DatInCst                                                  | CCStRcv(TCV_chTch<br><br>CCStatus_14(TCV_TI<br>0, C_U10))                                                           | (P) |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                 | +PostMainLinkRel(TCV_chTch)                                    |                                                                                                                     |     |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>MMI_indic_chk</b><br>(TCV_Res := OO_SSresultCHK(C_RegPswd)) |                                                                                                                     |     |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                 | [TCV_Res]                                                      |                                                                                                                     | (P) |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                 | [NOT TCV_Res]                                                  |                                                                                                                     | (F) |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                          |                                                                |                                                                                                                     |     |
| <ol style="list-style-type: none"> <li>1. To set up traffic channel.</li> <li>2. To establish a mobile originating call, bring the MS into state U10.</li> <li>3. To initiate the Registration of password supplementary service.</li> <li>4. Received the wrong password.</li> <li>5. Negative password check, indefinite form.</li> <li>6. Check whether the MS provides correct MMI user indication.</li> </ol> |                                                                |                                                                                                                     |     |

### Test Case Dynamic Behaviour

**Test Case Name:** TC\_31\_8\_1\_2\_3

**Group:** GSM\_L3\_MS\_v4180/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".

**Default:** OtherEventsFail

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CRef                                                                                                         | V | Comments |
|----|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---|----------|
| 1  |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                              |   |          |
| 2  |       | +BasicServiceMO(TSPX_MOBscSvcB,<br>TSPX_MOChRateB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                              |   |          |
| 3  |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Imm, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Reestablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                                                                                              |   |          |
| 4  |       | +CCConfigTCH_nociph(TSPX_TCHSubDef,<br>C_Ass, TSPX_TmSlitDef, TSPX_TscDef,<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3, TCV_ChMod.mode, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                              |   | 1.       |
| 5  |       | +Est_MO_Call(TimingAdv(0), TCV_ChRate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                              |   | 2.       |
| 6  |       | (TCV_Null :=<br>OO_InitSS("***03*330*1234*9876*9877#"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                              |   | 3.       |
| 7  |       | L?DL_DatInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CMSerDatReq(CMSer<br>viceReq_08)                                                                             |   |          |
| 8  |       | LIDL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CMSerAcp(TCV_chTc<br>h, CMServiceAcp_01)                                                                     |   |          |
| 9  |       | +continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                              |   |          |
| 10 |       | <b>continue</b><br>L?DL_DatInRegister (TCV_TI1 :=<br>DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI1,<br>TCV_TI2.ti_f := '1'B, TCV_Comp :=<br>DL_DatInRegister.msg.fie.components_1, TCV_n :=<br>OC_PosinSet(TCV_Comp, RegPasswdSS_01),<br>TCV_Invkld :=<br>OC_Asn1intToOct(TCV_Comp.[TCV_n].registerPass<br>wordComponents.registerPassword_InvokeComp.inv<br>okelD, 1))                                                                                                                                                                                                                                            | Register_03(Register<br>Pdu_03(facilityIErcv<br>(<br>RegPasswdSS_01)))                                       |   |          |
| 11 |       | LIDL_DatRqFac                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FacilitySnd(TCV_chT<br>ch,<br>FacilityPdu_25_ci(TC<br>V_TI2,<br>facilityIEtsnd(GetPass<br>wdSS_01(TCV_Invkld |   |          |



|    |                                                                |                                                                                                |     |
|----|----------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----|
| 12 | L?DL_DatInFac                                                  | ))))<br>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_Invkld)))) |     |
| 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_Invkld)))) |     |
| 16 | L?DL_DatInFac                                                  | FacilityRcv(FacilityPdu_26_ci(TCV_TI1, facilityIErcv(GetPasswdRslt_03)))                       | 6.  |
| 17 | LIDL_DatRqRelCmp                                               | RelComSnd(TCV_chTch, ReleaseCmp_09(TCV_TI2, facilityIEtsndiei(RegPasswdSSErr_03(TCV_Invkld)))) | 7.  |
| 18 | +MMI_indic_chk                                                 |                                                                                                |     |
| 19 | LIDL_DatRqCcstEnq                                              | CCStESnd(TCV_chTch, CCStatusEq_01(TCV_TI))                                                     |     |
| 20 | L?DL_DatInCcst                                                 | CCStRcv(TCV_chTch, CCStatus_14(TCV_TI0, C_U10))                                                | (P) |
| 21 | +PostMainLinkRel(TCV_chTch)                                    |                                                                                                |     |
| 22 | <b>MMI_indic_chk</b><br>(TCV_Res := OO_SSresultCHK(C_RegPswd)) |                                                                                                |     |
| 23 | [TCV_Res]                                                      |                                                                                                | (P) |
| 24 | [NOT TCV_Res]                                                  |                                                                                                | (F) |

**Detailed Comments:**

1. To set up traffic channel.
2. To establish a mobile originating call, bring the MS into state U10.
3. To initiate the Registration of password supplementary service.
4. Received the old password.
5. Received the new password.
6. TReceived a different new password.
7. New password mismatch.

### Test Case Dynamic Behaviour

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_31_8_3_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Group:</b>          | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Purpose:</b>        | <p>1) To check that the MS correctly requests a supplementary service transaction for activation of a specific call restriction service in CHANNEL REQUEST message.</p> <p>2) To check that the MS correctly requests a supplementary service transaction for activation of call restriction service in the subsequent CM-SERVICE REQUEST.</p> <p>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.</p> <p>4) To check that upon receipt of FACILITY message requiring the password, the MS provides the appropriate user indication (as described by the manufacturer).</p> <p>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).</p> <p>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).</p> <p>These checks are done for:</p> <p>a) BAOC, for basic service group "all synchronous services" the result of the operation being sent in a FACILITY message.</p> <p>b) BICRoam, for all basic service groups, the result of the operation being sent in a RELEASE COMPLETE message.</p> |
| <b>Default:</b>        | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                                                                                   | V   | 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("**33**22#"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                        |     | 2.                      |
| 4  |       | +part1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                        |     |                         |
| 5  |       | (TCV_Null := OO_InitSS("**351#"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                        |     | 3.                      |
| 6  |       | +part2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                        |     |                         |
|    |       | <b>part1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                        |     |                         |
| 7  |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ChReq(ChRequest_04)                                                                                                    | (P) |                         |
| 8  |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                        |     | To match ChReq retrans. |
| 9  |       | LIDL_UdatRqImm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 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 |       | LIDL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CMSerAcp(TCV_ch, CMServiceAcp_01)                                                                                      |     |                         |
| 13 |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                        |     |                         |
|    |       | <b>localtree</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                        |     |                         |
| 14 |       | L?DL_DatInRegister (TCV_TI :=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Register_03(Register                                                                                                   | (P) |                         |

|    |                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                  |                         |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 15 | DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI,<br>TCV_TI.ti_f := '1'B, TCV_Comp :=<br>DL_DatInRegister.msg.fie.components_1, TCV_n :=<br>OC_PosinSet(TCV_Comp, ActivateSS_03),<br>TCV_Invkld :=<br>OC_Asn1intToOct(TCV_Comp.[TCV_n].activateSSCo<br>mponents.activateSS_InvokeComp.invokeID, 1))<br>LIDL_DatRqFac                                      | Pdu_03(facilityIErcvie<br>( ActivateSS_03)))<br><br>FacilitySnd(TCV_ch,<br>FacilityPdu_25_ci(TC<br>V_TI,<br>facilityIEtsnd(GetPass<br>wdSS_01(TCV_Invkld<br>)))) | 4.                      |
| 16 | (TCV_Null := OO_EnterPswd("1234"))                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                  | 5.                      |
| 17 | L?DL_DatInFac                                                                                                                                                                                                                                                                                                                                       | FacilityRcv(FacilityPd<br>u_26_ci(TCV_TI0,<br>facilityIErcv(<br>GetPasswdRslt_01)))                                                                              | (P)                     |
| 18 | LIDL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                    | RelComSnd(TCV_ch,<br>ReleaseCmp_09(TCV<br>_TI,<br>facilityIEtsndiei(Activa<br>teSSRslt_03(TCV_Inv<br>kld))))                                                     |                         |
| 19 | +Checktree(C_ActBOAC)                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                  |                         |
| 20 | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                  |                         |
| 21 | <b>part2</b><br>L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                    | ChReq(ChRequest_0<br>4)                                                                                                                                          | (P)                     |
| 22 | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                  | To match ChReq retrans. |
| 23 | LIDL_UdatRqImmass                                                                                                                                                                                                                                                                                                                                   | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(0)))                    |                         |
| 24 | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                     | CMSerReq(CMServic<br>eReq_08)                                                                                                                                    |                         |
| 25 | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                  | Restore Normal default  |
| 26 | LIDL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                    | CMSerAcp(TCV_ch,<br>CMServiceAcp_01)                                                                                                                             |                         |
| 27 | +localtree1                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                  |                         |
| 28 | <b>localtree1</b><br>L?DL_DatInRegister (TCV_TI :=<br>DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI,<br>TCV_TI.ti_f := '1'B, TCV_Comp :=<br>DL_DatInRegister.msg.fie.components_1, TCV_n :=<br>OC_PosinSet(TCV_Comp, ActivateSS_04),<br>TCV_Invkld :=<br>OC_Asn1intToOct(TCV_Comp.[TCV_n].activateSSCo<br>mponents.activateSS_InvokeComp.invokeID, 1)) | Register_03(Register<br>Pdu_03(facilityIErcvie<br>( ActivateSS_04)))                                                                                             | (P)                     |
| 29 | LIDL_DatRqFac                                                                                                                                                                                                                                                                                                                                       | FacilitySnd(TCV_ch,<br>FacilityPdu_25_ci(TC<br>V_TI,<br>facilityIEtsnd(GetPass<br>wdSS_01(TCV_Invkld<br>))))                                                     | 4.                      |
| 30 | +Checktree(C_RegPswd)                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                  | 5.                      |
| 31 | (TCV_Null := OO_EnterPswd("1234"))                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                  |                         |
| 32 | L?DL_DatInFac                                                                                                                                                                                                                                                                                                                                       | FacilityRcv(FacilityPd<br>u_26_ci(TCV_TI0,<br>facilityIErcv(<br>GetPasswdRslt_01)))                                                                              |                         |
| 33 | LIDL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                    | RelComSnd(TCV_ch,<br>ReleaseCmp_09(TCV<br>_TI,<br>facilityIEtsndiei(Activa<br>teSSRslt_04(TCV_Inv<br>kld))))                                                     |                         |

|                                                        |  |                                  |  |     |
|--------------------------------------------------------|--|----------------------------------|--|-----|
| 34                                                     |  | +Checktree(C_ActBICRoam)         |  |     |
| 35                                                     |  | +PostMainLinkRel(TCV_ch)         |  |     |
|                                                        |  | <b>Checktree(par:INTEGER)</b>    |  |     |
| 36                                                     |  | (TCV_Res := OO_SSresultCHK(par)) |  |     |
| 37                                                     |  | [TCV_Res]                        |  | (P) |
| 38                                                     |  | [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

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_31_8_3_2_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Group:</b>          | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Purpose:</b>        | <p>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.</p> <p>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.</p> <p>3) To check that upon receipt of the RELEASE COMPLETE message related to the present SS transaction, the first transaction remains unaffected.</p> <p>4) To check that upon receipt of the RELEASE COMPLETE message, the MS provides the appropriate user indication (as described by the Manufacturer).</p> <p>Those checks are performed with a call transaction already established for :<br/>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".</p> |
| <b>Default:</b>        | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CRef                                                                                                                | V   | Comments |
|----|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----|----------|
| 1  |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                     |     |          |
| 2  |       | +BasicServiceMO(TSPX_MOBscSvcD,<br>TSPX_MOChRateD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                     |     |          |
| 3  |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                                                                                                     |     |          |
| 4  |       | +CCConfigTCH_nociph(TSPX_TCHHSubDef,<br>C_Ass, TSPX_TmSltDef, TSPX_TscDef,<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3, TCV_ChMod.mode, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                     |     | 1.       |
| 5  |       | +Est_MO_Call(TimingAdv(0), TCV_ChRate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                     |     | 2.       |
| 6  |       | (TCV_Null := OO_InitSS("**331#"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                     |     | 3.       |
| 7  |       | L?DL_DatInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CMSerDatReq(CMSer<br>viceReq_08)                                                                                    |     |          |
| 8  |       | L!DL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CMSerAcp(TCV_chTc<br>h, CMSerAcp_01)                                                                                |     |          |
| 9  |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                     |     |          |
| 10 |       | <b>localtree</b><br>L?DL_DatInRegister (TCV_TI1 :=<br>DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI1,<br>TCV_TI2.ti_f := '1'B, TCV_Comp :=<br>DL_DatInRegister.msg.fie.components_1, TCV_n :=<br>OC_PosinSet(TCV_Comp, ActivateSS_05),<br>TCV_Invkld :=<br>OC_Asn1intToOct(TCV_Comp.[TCV_n].activateSSCo<br>mponents.activateSS_InvokeComp.invokeID, 1))                                                                                                                                                                                                                                                             | Register_03(Register<br>Pdu_03(facilityIErcvie<br>(ActivateSS_05)))                                                 | (P) |          |
| 11 |       | L!DL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | RelComSnd(TCV_ch<br>Tch,<br>ReleaseCmp_09(TCV<br>_TI2,<br>facilityIEtsndiei(Activa<br>teSSerr_01(TCV_Invk<br>ld)))) |     | 4.       |
| 12 |       | (TCV_Res := OO_SSresultCHK(C_ActBOIC))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                     |     |          |
| 13 |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                     | (P) | 5.       |

|                           |                             |                                                                           |     |
|---------------------------|-----------------------------|---------------------------------------------------------------------------|-----|
| 14                        | +localtree1                 |                                                                           |     |
| 15                        | [NOT TCV_Res]               |                                                                           | (F) |
| 16                        | +localtree1                 |                                                                           |     |
|                           | <b>localtree1</b>           |                                                                           |     |
| 17                        | L!DL_DatRqCcstEnq           | CCStESnd(TCV_chT<br>ch,<br>CCStatusEq_01(TCV<br>_TI))                     |     |
| 18                        | L?DL_DatInCcst              | CCStRcv(TCV_chTch<br>,<br>CCStatus_14(TCV_TI<br>0, 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

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_31_8_3_2_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Group:</b>          | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Purpose:</b>        | <p>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.</p> <p>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.</p> <p>3) To check that upon receipt of the RELEASE COMPLETE message related to the present SS transaction, the first transaction remains unaffected.</p> <p>4) To check that upon receipt of the RELEASE COMPLETE message, the MS provides the appropriate user indication (as described by the Manufacturer).</p> <p>Those checks are performed with a call transaction already established for :</p> <p style="padding-left: 20px;">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".</p> |
| <b>Default:</b>        | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CRef                                                                                                                 | V   | Comments |
|----|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----|----------|
| 1  |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                      |     |          |
| 2  |       | +BasicServiceMO(TSPX_MOBscSvcE,<br>TSPX_MOChRateE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                      |     |          |
| 3  |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                                                                                                      |     |          |
| 4  |       | +CCConfigTCH_nociph(TSPX_TCHHSubDef,<br>C_Ass, TSPX_TmSltDef, TSPX_TscDef,<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3, TCV_ChMod.mode, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                      |     | 1.       |
| 5  |       | +Est_MO_Call(TimingAdv(0), TCV_ChRate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                      |     | 2.       |
| 6  |       | (TCV_Null := OO_InitSS("**35#"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                      |     | 3.       |
| 7  |       | L?DL_DatInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CMSerDatReq(CMSer<br>viceReq_08)                                                                                     | (P) |          |
| 8  |       | L!DL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CMSerAcp(TCV_chTc<br>h, CMSerAcp_01)                                                                                 |     |          |
| 9  |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                      |     |          |
| 10 |       | <b>localtree</b><br>L?DL_DatInRegister (TCV_TI1 :=<br>DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI1,<br>TCV_TI2.ti_f := '1'B, TCV_Comp :=<br>DL_DatInRegister.msg.fie.components_1, TCV_n :=<br>OC_PosinSet(TCV_Comp, ActivateSS_06),<br>TCV_Invkld :=<br>OC_Asn1intToOct(TCV_Comp.[TCV_n].activateSSCo<br>mponents.activateSS_InvokeComp.invokeID, 1))                                                                                                                                                                                                                                                             | Register_03(Register<br>Pdu_03(facilityIErcviei<br>( ActivateSS_06)))                                                | (P) |          |
| 11 |       | L!DL_DatRqFac                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FacilitySnd(TCV_chT<br>ch,<br>FacilityPdu_25_ci(TC<br>V_TI2,<br>facilityIEtsnd(GetPass<br>wdSS_01(TCV_Invkld<br>)))) |     |          |
| 12 |       | (TCV_Res := OO_SSresultCHK(C_RegPswd))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                      |     |          |
| 13 |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                      | (P) |          |

|    |                                        |                                                                                                                     |     |    |
|----|----------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----|----|
| 14 | +localtree1                            |                                                                                                                     |     |    |
| 15 | [NOT TCV_Res]                          |                                                                                                                     | (F) |    |
| 16 | +localtree1                            |                                                                                                                     |     |    |
|    | <b>localtree1</b>                      |                                                                                                                     |     |    |
| 17 | (TCV_Null := OO_EnterPswd("1234"))     |                                                                                                                     |     | 4. |
| 18 | L?DL_DatInFac                          | FacilityRcv(FacilityPd<br>u_26_ci(TCV_TI1,<br>facilityIercv(<br>GetPasswdRslt_01)))                                 |     |    |
| 19 | L!DL_DatRqRelCmp                       | RelComSnd(TCV_ch<br>Tch,<br>ReleaseCmp_09(TCV<br>_TI2,<br>facilityIEtsndiei(Activa<br>teSSerr_02(TCV_Invk<br>Id)))) |     | 5. |
| 20 | (TCV_Res := OO_SSresultCHK(C_ActBAIC)) |                                                                                                                     |     |    |
| 21 | [TCV_Res]                              |                                                                                                                     | (P) | 6. |
| 22 | +localtree2                            |                                                                                                                     |     |    |
| 23 | [NOT TCV_Res]                          |                                                                                                                     | (F) |    |
| 24 | +localtree2                            |                                                                                                                     |     |    |
|    | <b>localtree2</b>                      |                                                                                                                     |     |    |
| 25 | L!DL_DatRqCcstEnq                      | CCStESnd(TCV_chT<br>ch,<br>CCStatusEq_01(TCV<br>_TI))                                                               |     |    |
| 26 | L?DL_DatInCcst                         | CCStRcv(TCV_chTch<br>,<br>CCStatus_14(TCV_TI<br>0, C_U10))                                                          | (P) |    |
| 27 | +PostMainLinkRel(TCV_chTch)            |                                                                                                                     |     |    |

**Detailed Comments:**

1. To setup traffic channel.
2. To establish a mobile originating call, bring the MS into state U10.
3. To initiate the Activation supplementary service.
4. To enter password.
5. ReturnError indication negative password checking.
6. The user indication is correct, pass.



### Test Case Dynamic Behaviour

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_31_8_4_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Group:</b>          | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Purpose:</b>        | <p>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.</p> <p>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.</p> <p>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.</p> <p>4) To check that upon receipt of FACILITY message requiring the password, the MS provides the appropriate user indication (as described by the manufacturer).</p> <p>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).</p> <p>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).</p> <p>These checks are done for:</p> <p>a) all restrictions, for basic service group "speech".</p> <p>b) barring of outgoing calls, for all facsimile.</p> |

**Default:** OtherEventsFail

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                                                                                                   | V   | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                        |     |                         |
|    |       | <b>part1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                        |     |                         |
| 7  |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ChReq(ChRequest_04)                                                                                                    | (P) |                         |
| 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))) |     |                         |
| 10 |       | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CMSerReq(CMServiceReq_08)                                                                                              | (P) |                         |
| 11 |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                        |     | Restore Normal default  |
| 12 |       | L!DL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CMSerAcp(TCV_ch, CMServiceAcp_01)                                                                                      |     |                         |
| 13 |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                        |     |                         |
|    |       | <b>localtree</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                        |     |                         |
| 14 |       | L?DL_DatInRegister (TCV_TI := DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Register_03(RegisterPdu_03(facilityIercviei                                                                            | (P) |                         |

|    |                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                               |                         |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 15 | TCV_TI.ti.f := '1'B, TCV_Comp :=<br>DL_DatInRegister.msg.fie.components_1, TCV_n :=<br>OC_PosinSet(TCV_Comp, DeactivateSS_03),<br>TCV_InvkId :=<br>OC_Asn1intToOct(TCV_Comp.[TCV_n].deactivateSS<br>Components.deactivateSS_InvokeComp.invokeID, 1))<br>L!DL_DatRqFac                                                                                     | ( DeactivateSS_03)))<br><br>FacilitySnd(TCV_ch,<br>FacilityPdu_25_ci(TC<br>V_TI,<br>facilitylEtsnd(GetPass<br>wdSS_01(TCV_InvkId<br>))))      |                         |
| 16 | (TCV_Res := OO_SSresultCHK(C_RegPswd))                                                                                                                                                                                                                                                                                                                    |                                                                                                                                               |                         |
| 17 | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                               | (P)                     |
| 18 | +localtree1                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                               |                         |
| 19 | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                               | (F)                     |
| 20 | +localtree1                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                               |                         |
| 21 | <b>localtree1</b><br>(TCV_Null := OO_EnterPswd("1234"))                                                                                                                                                                                                                                                                                                   |                                                                                                                                               | 4.                      |
| 22 | L?DL_DatInFac                                                                                                                                                                                                                                                                                                                                             | FacilityRcv(FacilityPd<br>u_26_ci(TCV_TI0,<br>facilitylErcv(<br>GetPasswdRslt_01)))                                                           |                         |
| 23 | L!DL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                          | RelComSnd(TCV_ch,<br>ReleaseCmp_09(TCV<br>_TI,<br>facilitylEtsndiei(Deacti<br>vateSSRslt_03(TCV_I<br>nvkId))))                                |                         |
| 24 | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                               |                         |
| 25 | <b>part2</b><br>L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                          | ChReq(ChRequest_0<br>4)                                                                                                                       | (P)                     |
| 26 | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                              |                                                                                                                                               | To match ChReq retrans. |
| 27 | L!DL_UdatRqImmss                                                                                                                                                                                                                                                                                                                                          | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(0))) |                         |
| 28 | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                           | CMSerReq(CMServic<br>eReq_08)                                                                                                                 | (P)                     |
| 29 | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                               | Restore Normal default  |
| 30 | L!DL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                          | CMSerAcp(TCV_ch,<br>CMSerAcp_01)                                                                                                              |                         |
| 31 | +localtree2                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                               |                         |
| 32 | <b>localtree2</b><br>L?DL_DatInRegister (TCV_TI :=<br>DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI,<br>TCV_TI.ti.f := '1'B, TCV_Comp :=<br>DL_DatInRegister.msg.fie.components_1, TCV_n :=<br>OC_PosinSet(TCV_Comp, DeactivateSS_04),<br>TCV_InvkId :=<br>OC_Asn1intToOct(TCV_Comp.[TCV_n].deactivateSS<br>Components.deactivateSS_InvokeComp.invokeID, 1)) | Register_03(Register<br>Pdu_03(facilitylErcv<br>( DeactivateSS_04)))                                                                          | (P)                     |
| 33 | L!DL_DatRqFac                                                                                                                                                                                                                                                                                                                                             | FacilitySnd(TCV_ch,<br>FacilityPdu_25_ci(TC<br>V_TI,<br>facilitylEtsnd(GetPass<br>wdSS_01(TCV_InvkId<br>))))                                  |                         |
| 34 | (TCV_Res := OO_SSresultCHK(C_RegPswd))                                                                                                                                                                                                                                                                                                                    |                                                                                                                                               |                         |
| 35 | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                               | (P)                     |
| 36 | +localtree3                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                               |                         |
| 37 | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                               | (F)                     |
| 38 | +localtree3                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                               |                         |

|                                                                                                                                                                                                                                                                                                   |                   |                                        |                                                                                                                |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------|----------------------------------------------------------------------------------------------------------------|-----|
|                                                                                                                                                                                                                                                                                                   | <b>localtree3</b> |                                        |                                                                                                                |     |
| 39                                                                                                                                                                                                                                                                                                |                   | (TCV_Null := OO_EnterPswd("1234"))     |                                                                                                                |     |
| 40                                                                                                                                                                                                                                                                                                |                   | L?DL_DatInFac                          | FacilityRcv(FacilityPd<br>u_26_ci(TCV_TI0,<br>facilityIErcv(<br>GetPasswdRslt_01)))                            | (P) |
| 41                                                                                                                                                                                                                                                                                                |                   | LIDL_DatRqRelCmp                       | RelComSnd(TCV_ch,<br>ReleaseCmp_09(TCV<br>_TI,<br>facilityIEtsndiei(Deacti<br>vateSSRslt_04(TCV_I<br>nvkld)))) |     |
| 42                                                                                                                                                                                                                                                                                                |                   | (TCV_Res := OO_SSresultCHK(C_DeactBO)) |                                                                                                                |     |
| 43                                                                                                                                                                                                                                                                                                |                   | [TCV_Res]                              |                                                                                                                | (P) |
| 44                                                                                                                                                                                                                                                                                                |                   | +PostMainLinkRel(TCV_ch)               |                                                                                                                |     |
| 45                                                                                                                                                                                                                                                                                                |                   | [NOT TCV_Res]                          |                                                                                                                | (F) |
| 46                                                                                                                                                                                                                                                                                                |                   | +PostMainLinkRel(TCV_ch)               |                                                                                                                |     |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                         |                   |                                        |                                                                                                                |     |
| <ol style="list-style-type: none"> <li>1. To setup physical channel as BCCH, CCCH and SDCCH4.</li> <li>2. To initiate Deactivation for B.</li> <li>3. To initiate Deactivation for BO.</li> <li>4. To send GetPassword invocation to the MS.</li> <li>5. To enter password at the MMI.</li> </ol> |                   |                                        |                                                                                                                |     |

### Test Case Dynamic Behaviour

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_31_8_4_2_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Group:</b>          | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Purpose:</b>        | <p>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.</p> <p>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.</p> <p>3) To check that upon receipt of the RELEASE COMPLETE message related to the present SS transaction, the first transaction remains unaffected.</p> <p>4) To check that upon receipt of the RELEASE COMPLETE message, the MS provides the appropriate user indication (as described by the Manufacturer).</p> <p>These checks are performed with a call transaction already established for :<br/> 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".</p> |
| <b>Default:</b>        | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                                                                                | V   | 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_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  |       | +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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                     |     | 2.       |
| 6  |       | (TCV_Null := OO_InitSS("#353#"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                     |     | 3.       |
| 7  |       | L?DL_DatInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CMSerDatReq(CMSer viceReq_08)                                                                       |     |          |
| 8  |       | L!DL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CMSerAcp(TCV_chTc h, CMSerAcp_01)                                                                   |     |          |
| 9  |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                     |     |          |
| 10 |       | <b>localtree</b><br>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_Invkld := OC_Asn1intToOct(TCV_Comp.[TCV_n].deactivateSS Components.deactivateSS_InvokeComp.invokeID, 1))                                                                                                                                                                                                                              | Register_03(Register Pdu_03(facilityIErcviei ( DeactivateSS_05)))                                   | (P) |          |
| 11 |       | L!DL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RelComSnd(TCV_ch Tch, ReleaseCmp_09(TCV _TI2, facilityIEtsndiei(Deacti vateSSerr_01(TCV_I nvkld)))) |     | 4.       |
| 12 |       | (TCV_Res := OO_SSresultCHK(C_DeactBI))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                     |     |          |

|                   |                             |  |                                                     |     |    |
|-------------------|-----------------------------|--|-----------------------------------------------------|-----|----|
| 13                | [TCV_Res]                   |  |                                                     | (P) | 5. |
| 14                | +localtree1                 |  |                                                     |     |    |
| 15                | [NOT TCV_Res]               |  |                                                     | (F) |    |
| 16                | +localtree1                 |  |                                                     |     |    |
| <b>localtree1</b> |                             |  |                                                     |     |    |
| 17                | L!DL_DatRqCcstEnq           |  | CCStESnd(TCV_chTch,<br>CCStatusEq_01(TCV_TI))       |     |    |
| 18                | L?DL_DatInCcst              |  | CCStRcv(TCV_chTch,<br>'CCStatus_14(TCV_TI0, C_U10)) | (P) |    |
| 19                | +PostMainLinkRel(TCV_chTch) |  |                                                     |     |    |

**Detailed Comments:**

1. To setup traffic channel.
2. To establish a mobile originating call to bring the MS into state U10.
3. To initiate the DeactivateSS for BI.
4. To send ReturnError for the invocation of DeactivateSS.
5. The user indication is correct, pass.

### Test Case Dynamic Behaviour

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_31_8_4_2_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Group:</b>          | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purpose:</b>        | <p>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.</p> <p>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.</p> <p>3) To check that upon receipt of the RELEASE COMPLETE message related to the present SS transaction, the first transaction remains unaffected.</p> <p>4) To check that upon receipt of the RELEASE COMPLETE message, the MS provides the appropriate user indication (as described by the Manufacturer).</p> <p>Those checks are performed with a call transaction already established for :</p> <p style="padding-left: 20px;">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".</p> |
| <b>Default:</b>        | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CRef                                                                                                                 | V   | Comments |
|----|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----|----------|
| 1  |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                      |     |          |
| 2  |       | +BasicServiceMO(TSPX_MOBscSvcG,<br>TSPX_MOChRateG)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                      |     |          |
| 3  |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                                                                                                      |     |          |
| 4  |       | +CCConfigTCH_nociph(TSPX_TCHHSubDef,<br>C_Ass, TSPX_TmSltDef, TSPX_TscDef,<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3, TCV_ChMod.mode, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                      |     | 1.       |
| 5  |       | +Est_MO_Call(TimingAdv(0), TCV_ChRate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                      |     | 2.       |
| 6  |       | (TCV_Null := OO_InitSS("#332#"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                      |     | 3.       |
| 7  |       | L?DL_DatInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CMSerDatReq(CMSer<br>viceReq_08)                                                                                     | (P) |          |
| 8  |       | LIDL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CMSerAcp(TCV_chTc<br>h, CMSerAcp_01)                                                                                 |     |          |
| 9  |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                      |     |          |
| 10 |       | <b>localtree</b><br>L?DL_DatInRegister (TCV_TI1 :=<br>DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI1,<br>TCV_TI2.ti_f := '1'B, TCV_Comp :=<br>DL_DatInRegister.msg.fie.components_1, TCV_n :=<br>OC_PosinSet(TCV_Comp, DeactivateSS_06),<br>TCV_Invkld :=<br>OC_Asn1intToOct(TCV_Comp.[TCV_n].deactivateSS<br>Components.deactivateSS_InvokeComp.invokeID, 1))                                                                                                                                                                                                                                                       | Register_03(Register<br>Pdu_03(facilityIercviei<br>( DeactivateSS_06)))                                              | (P) |          |
| 11 |       | LIDL_DatRqFac                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FacilitySnd(TCV_chT<br>ch,<br>FacilityPdu_25_ci(TC<br>V_TI2,<br>facilityIEtsnd(GetPass<br>wdSS_01(TCV_Invkld<br>)))) |     |          |
| 12 |       | (TCV_Res := OO_SSresultCHK(C_RegPswd))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                      |     |          |
| 13 |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                      | (P) |          |

|                                                                         |                                                 |                                                                                                                       |     |    |
|-------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----|----|
| 14                                                                      | +localtree1                                     |                                                                                                                       |     |    |
| 15                                                                      | [NOT TCV_Res]                                   |                                                                                                                       | (F) |    |
| 16                                                                      | +localtree1                                     |                                                                                                                       |     |    |
|                                                                         | <b>localtree1</b>                               |                                                                                                                       |     |    |
| 17                                                                      | (TCV_Null := OO_EnterPswd("1234"))              |                                                                                                                       |     | 4. |
| 18                                                                      | L?DL_DatInFac                                   | FacilityRcv(FacilityPd<br>u_26_ci(TCV_TI1,<br>facilityIErcv(<br>GetPasswdRslt_01)))                                   |     |    |
| 19                                                                      | LIDL_DatRqRelCmp                                | RelComSnd(TCV_ch<br>Tch,<br>ReleaseCmp_09(TCV<br>_TI2,<br>facilityIEtsndiei(Deacti<br>vateSSErr_02(TCV_I<br>nvklid))) |     | 5. |
| 20                                                                      | (TCV_Res :=<br>OO_SSresultCHK(C_DeactBOICEXHC)) |                                                                                                                       |     |    |
| 21                                                                      | [TCV_Res]                                       |                                                                                                                       | (P) | 6. |
| 22                                                                      | +localtree2                                     |                                                                                                                       |     |    |
| 23                                                                      | [NOT TCV_Res]                                   |                                                                                                                       | (F) |    |
| 24                                                                      | +localtree2                                     |                                                                                                                       |     |    |
|                                                                         | <b>localtree2</b>                               |                                                                                                                       |     |    |
| 25                                                                      | L!DL_DatRqCcstEnq                               | CCStESnd(TCV_chT<br>ch,<br>CCStatusEq_01(TCV<br>_TI))                                                                 |     |    |
| 26                                                                      | L?DL_DatInCcst                                  | CCStRcv(TCV_chTch<br>,<br>CCStatus_14(TCV_TI<br>0, 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.                  |                                                 |                                                                                                                       |     |    |
| 4. To enter password.                                                   |                                                 |                                                                                                                       |     |    |
| 5. ReturnError indication negative password checking.                   |                                                 |                                                                                                                       |     |    |
| 6. The user indication is correct, pass.                                |                                                 |                                                                                                                       |     |    |

### Test Case Dynamic Behaviour

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_31_8_6_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Group:</b>          | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Purpose:</b>        | <p>1) To check that the MS correctly requests a supplementary service transaction for interrogation of a specific call barring service in CHANNEL REQUEST message.</p> <p>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.</p> <p>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.</p> <p>4) To check that upon receipt of FACILITY message requiring the password, the MS provides the appropriate user indication (as described by the manufacturer).</p> <p>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).</p> <p>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).</p> <p>These checks are done for :</p> <p>a) BAIC, the result of the operation being a Basic Service code sent in a FACILITY message.</p> <p>b) BOICExHC, the result of the operation being a SS-status sent in a RELEASE COMPLETE message.</p> |
| <b>Default:</b>        | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CRef                                                                                                                   | V   | Comments                |
|----|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| 1  |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                        |     |                         |
| 2  |       | +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_NECl_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                        |     |                         |
|    |       | <b>part1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                        |     |                         |
| 7  |       | 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. |
| 9  |       | LIDL_UdatRqImm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 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)                                                                                              | (P) |                         |
| 11 |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                        |     | Restore Normal default  |
| 12 |       | LIDL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CMSerAcp(TCV_ch, CMSerAcp_01)                                                                                          |     |                         |
| 13 |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                        |     |                         |
|    |       | <b>localtree</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                        |     |                         |
| 14 |       | L?DL_DatInRegister (TCV_TI :=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Register_03(Register                                                                                                   | (P) |                         |



|    |                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                      |                         |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 15 | DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI,<br>TCV_TI.ti_f := '1'B, TCV_Comp :=<br>DL_DatInRegister.msg.fie.components_1, TCV_n :=<br>OC_PosinSet(TCV_Comp, InterrogateSS_07),<br>TCV_Invkld :=<br>OC_Asn1intToOct(TCV_Comp.[TCV_n].interrogateSS<br>SComponents.interrogateSS_InvokeComp.invokeID,<br>1))<br>LIDL_DatRqFac                                      | Pdu_03(facilityIErcviei<br>( InterrogateSS_07)))<br><br>FacilitySnd(TCV_ch,<br>FacilityPdu_25_ci(TC<br>V_TI,<br>facilityIEtsnd(GetPass<br>wdSS_01(TCV_Invkld<br>)))) |                         |
| 16 | (TCV_Res := OO_SSresultCHK(C_RegPswd))                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                      |                         |
| 17 | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                      | (P)                     |
| 18 | +localtree1                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                      |                         |
| 19 | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                      | (F)                     |
| 20 | +localtree1                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                      |                         |
| 21 | <b>localtree1</b><br>(TCV_Null := OO_EnterPswd("1234"))                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                      | 4.                      |
| 22 | L?DL_DatInFac                                                                                                                                                                                                                                                                                                                                                    | FacilityRcv(FacilityPd<br>u_26_ci(TCV_TI0,<br>facilityIErcv(<br>GetPasswdRslt_01)))                                                                                  |                         |
| 23 | LIDL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                                 | RelComSnd(TCV_ch,<br>ReleaseCmp_09(TCV<br>_TI,<br>facilityIEtsndiei(Interro<br>gateSSRslt_03(TCV_I<br>nvkld))))                                                      |                         |
| 24 | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                      |                         |
| 25 | <b>part2</b><br>L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.eau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                  | ChReq(ChRequest_0<br>4)                                                                                                                                              | (P)                     |
| 26 | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                      | To match ChReq retrans. |
| 27 | LIDL_UdatRqImmss                                                                                                                                                                                                                                                                                                                                                 | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(0)))                        |                         |
| 28 | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                                  | CMSerReq(CMServic<br>eReq_08)                                                                                                                                        | (P)                     |
| 29 | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                      | Restore Normal default  |
| 30 | LIDL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                 | CMSerAcp(TCV_ch,<br>CMSerAcp_01)                                                                                                                                     |                         |
| 31 | +localtree2                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                      |                         |
| 32 | <b>localtree2</b><br>L?DL_DatInRegister (TCV_TI :=<br>DL_DatInRegister.msg.ti, TCV_TI0 := TCV_TI,<br>TCV_TI.ti_f := '1'B, TCV_Comp :=<br>DL_DatInRegister.msg.fie.components_1, TCV_n :=<br>OC_PosinSet(TCV_Comp, InterrogateSS_08),<br>TCV_Invkld :=<br>OC_Asn1intToOct(TCV_Comp.[TCV_n].interrogateSS<br>SComponents.interrogateSS_InvokeComp.invokeID,<br>1)) | Register_03(Register<br>Pdu_03(facilityIErcviei<br>( InterrogateSS_08)))                                                                                             | (P)                     |
| 33 | LIDL_DatRqFac                                                                                                                                                                                                                                                                                                                                                    | FacilitySnd(TCV_ch,<br>FacilityPdu_25_ci(TC<br>V_TI,<br>facilityIEtsnd(GetPass<br>wdSS_01(TCV_Invkld<br>))))                                                         |                         |
| 34 | (TCV_Res := OO_SSresultCHK(C_RegPswd))                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                      |                         |
| 35 | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                      | (P)                     |
| 36 | +localtree3                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                      |                         |

|    |                                                 |                                                                                               |     |
|----|-------------------------------------------------|-----------------------------------------------------------------------------------------------|-----|
| 37 | [NOT TCV_Res]                                   |                                                                                               | (F) |
| 38 | +localtree3                                     |                                                                                               |     |
|    | <b>localtree3</b>                               |                                                                                               |     |
| 39 | (TCV_Null := OO_EnterPswd("1234"))              |                                                                                               |     |
| 40 | L?DL_DatInFac                                   | FacilityRcv(FacilityPdu_26_ci(TCV_TI0, facilityIErcv(GetPasswdRslt_01)))                      | (P) |
| 41 | L!DL_DatRqRelCmp                                | RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI, facilityIEtsndiei(InterrogateSSRslt_04(TCV_InvkId)))) |     |
| 42 | (TCV_Res := OO_SSresultCHK(C_InterrogBOICExHC)) |                                                                                               |     |
| 43 | [TCV_Res]                                       |                                                                                               | (P) |
| 44 | +PostMainLinkRel(TCV_ch)                        |                                                                                               |     |
| 45 | [NOT TCV_Res]                                   |                                                                                               | (F) |
| 46 | +PostMainLinkRel(TCV_ch)                        |                                                                                               |     |

**Detailed Comments:**

1. To setup physical channel as BCCH, CCCH and SDCCH4.
2. To initiate Interrogation for BAIC.
3. To initiate Interrogation for BOICExHC.
4. To send GetPassword invocation to the MS.
5. To enter password at the MMI.

### Test Case Dynamic Behaviour

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_31_8_6_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Group:</b>          | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purpose:</b>        | <p>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.</p> <p>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.</p> <p>3) To check that upon receipt of the RELEASE COMPLETE message related to the present SS transaction, the first transaction remains unaffected.</p> <p>4) To check that upon receipt of the RELEASE COMPLETE message, the MS provides the appropriate user indication (as described by the Manufacturer).</p> <p>These checks are performed with a call transaction already established for :</p> <p>a) BICRoam, the RELEASE COMPLETE message being sent with a facility IE containing a return_error(error) where error is "SS not available".</p> <p>b) BOIC, the RELEASE COMPLETE message being sent with a facility IE containing a reject(involve_problem) where involve_problem is "resource limitation".</p> |
| <b>Default:</b>        | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                                               | V | 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_NECL_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, 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  |       | +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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                    |   | 2.       |
| 6  |       | (TCV_Null := OO_InitSS("**#351#"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                    |   | 3.       |
| 7  |       | +part1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                    |   |          |
| 8  |       | (TCV_Null := OO_InitSS("**#331#"))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                    |   | 4.       |
| 9  |       | +part2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                    |   |          |
|    |       | <b>part1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                    |   |          |
| 10 |       | L?DL_DatInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CMSerDatReq(CMSer viceReq_08)                                      |   |          |
| 11 |       | L!DL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CMSerAcp(TCV_chTc h, CMServiceAcp_01)                              |   |          |
| 12 |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                    |   |          |
|    |       | <b>localtree</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                    |   |          |
| 13 |       | L?DL_DatInRegister (TCV_TI1 := DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI1, TCV_TI2.ti_f := '1'B, TCV_Comp := DL_DatInRegister.msg.fie.components_1, TCV_n := OC_PosinSet(TCV_Comp, InterrogateSS_05), TCV_Invkld := OC_Asn1intToOct(TCV_Comp.[TCV_n].interrogateSSComponents.interrogateSS_InvokeComp.invokeld,                                                                                                                                                                                                                                                    | Register_03(Register Pdu_03(facilityIercviei ( InterrogateSS_05))) |   |          |

|                                              |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                         |     |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-----|
| 14                                           | 1))<br>L!DL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                             | RelComSnd(TCV_chTch,<br>ReleaseCmp_09(TCV_TI2,<br>facilitylEtsndiei(InterrogateSSErr_02(TCV_Invklid)))) |     |
| 15                                           | L!DL_DatRqCstEnq                                                                                                                                                                                                                                                                                                                                                    | CCStESnd(TCV_chTch,<br>CCStatusEq_01(TCV_TI))                                                           |     |
| 16                                           | L?DL_DatInCst                                                                                                                                                                                                                                                                                                                                                       | CCStRcv(TCV_chTch,<br>CCStatus_14(TCV_TI0, C_U10))                                                      | (P) |
| 17                                           | <b>part2</b><br>L?DL_DatInCmsRq                                                                                                                                                                                                                                                                                                                                     | CMSerDatReq(CMSer<br>viceReq_08)                                                                        |     |
| 18                                           | L!DL_DatRqCmsAcq                                                                                                                                                                                                                                                                                                                                                    | CMSerAcq(TCV_chTch,<br>CMServiceAcq_01)                                                                 |     |
| 19                                           | +localtree1                                                                                                                                                                                                                                                                                                                                                         |                                                                                                         |     |
| 20                                           | <b>localtree1</b><br>L?DL_DatInRegister (TCV_TI1 :=<br>DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI1,<br>TCV_TI2.ti_f := '1'B, TCV_Comp :=<br>DL_DatInRegister.msg.fie.components_1, TCV_n :=<br>OC_PosinSet(TCV_Comp, InterrogateSS_06),<br>TCV_Invklid :=<br>OC_Asn1intToOct(TCV_Comp.[TCV_n].interrogateS<br>SComponents.interrogateSS_InvokeComp.invokeID,<br>1)) | Register_03(Register<br>Pdu_03(facilitylErcviei<br>( InterrogateSS_06)))                                |     |
| 21                                           | L!DL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                                    | RelComSnd(TCV_chTch,<br>ReleaseCmp_09(TCV_TI2,<br>facilitylEtsndiei(InterrogateSSRej_02(TCV_Invklid)))) |     |
| 22                                           | (TCV_Res := OO_SSresultCHK(C_InterrogBOIC))                                                                                                                                                                                                                                                                                                                         |                                                                                                         |     |
| 23                                           | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                           |                                                                                                         | (P) |
| 24                                           | L!DL_DatRqCstEnq                                                                                                                                                                                                                                                                                                                                                    | CCStESnd(TCV_chTch,<br>CCStatusEq_01(TCV_TI))                                                           |     |
| 25                                           | L?DL_DatInCst                                                                                                                                                                                                                                                                                                                                                       | CCStRcv(TCV_chTch,<br>CCStatus_14(TCV_TI0, C_U10))                                                      | (P) |
| 26                                           | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                         |                                                                                                         |     |
| 27                                           | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                       |                                                                                                         | (F) |
| 28                                           | L!DL_DatRqCstEnq                                                                                                                                                                                                                                                                                                                                                    | CCStESnd(TCV_chTch,<br>CCStatusEq_01(TCV_TI))                                                           |     |
| 29                                           | L?DL_DatInCst                                                                                                                                                                                                                                                                                                                                                       | CCStRcv(TCV_chTch,<br>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 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                               |     |                         |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| <b>Test Case Name:</b>      |       | TC_31_8_7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                               |     |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                               |     |                         |
| <b>Purpose:</b>             |       | To check that upon receipt of the RELEASE COMPLETE message the MS provides the appropriate user indication (as described by the manufacturer).                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                               |     |                         |
| <b>Default:</b>             |       | This is tested in the case of barring of incoming calls.<br>OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                               |     |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CRef                                                                                                                                          | V   | Comments                |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                               |     |                         |
| 2                           |       | +BasicServiceMO(TSPX_MOBscSvcB,<br>TSPX_MOChRateB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                               |     |                         |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_ImmAss, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_Omit,<br>CellChDes_Omit, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_45, BcchFreqLst_02,<br>BcchFreqLst_03, BcchFreqLst_04,<br>C_Restablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_nfh,<br>C_NCCP_2) |                                                                                                                                               |     |                         |
| 4                           |       | +CCConfigTCH_nociph(TSPX_TCHHSubDef,<br>C_Ass, TSPX_TmSltDef, TSPX_TscDef,<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3, TCV_ChMod.mode, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd)                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                               |     |                         |
| 5                           |       | +InitCall(TCV_Service)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                               |     |                         |
| 6                           |       | L?DL_RaInChRq (TCV_Rr :=<br>DL_RaInChRq.msg.ecau_rrf, TCV_Fn :=<br>DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ChReq(ChRequest_1<br>5)                                                                                                                       |     |                         |
| 7                           |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                               |     | To match ChReq retrans. |
| 8                           |       | LIDL_UdatRqImmAss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(0))) |     |                         |
| 9                           |       | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CMSerReq(CMServic<br>eReq_01)                                                                                                                 |     |                         |
| 10                          |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                               |     | Restore Normal default  |
| 11                          |       | LIDL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CMSerAcp(TCV_ch,<br>CMServiceAcp_01)                                                                                                          |     |                         |
| 12                          |       | +RcvSetupOrEsetup(TCV_Setu<br>p_mo, TCV_Esetup,<br>TCV_Ecall)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                               |     |                         |
| 13                          |       | LIDL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | RelComSnd(TCV_ch,<br>ReleaseCmp_09(TCV<br>_TI,<br>facilityIEtsndiei(Notific<br>ationSS_05)))                                                  |     |                         |
| 14                          |       | (TCV_Res :=<br>OO_SSresultCHK(C_Notify<br>BI))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                               |     |                         |
| 15                          |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                               | (P) |                         |
| 16                          |       | +PostMainLinkRel(TCV<br>_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                               |     |                         |
| 17                          |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                               | (F) |                         |
| 18                          |       | +PostMainLinkRel(TCV<br>_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                               |     |                         |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                               |     |                         |

**Test Case Dynamic Behaviour**

**Test Case Name:** TC\_31\_9\_1\_1  
**Group:** GSM\_L3\_MS\_v4180/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 used-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.

**Default:** OtherEventsFail

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CRef | V | Comments |
|----|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| 1  |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
| 2  |       | +BasicServiceMO(TSPX_MOBscSvcC, C_Full)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |          |
| 3  |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immss, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, 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,<br>C_Ass, TSPX_TmSltDef, TSPX_TscDef,<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3, TCV_ChMod.mode, FreqTCH_omit,<br>FreqTCH_omit, C_arfcn_tchA, C_arfcn_tchAd) |                                                                                                                                               |                                                                |
| 5  | (TCV_PreviousOctets:= 'A2120201'O,<br>TCV_FollowingOctets:=<br>'300E02013B0FC6F038CD4ED3F391E712'O,<br>TCV_counter_c:=1, TCV_counter_k:=1)                                                                 |                                                                                                                                               | USSD String for<br>FACILITY message<br>(random): "Facility OK" |
| 6  | REPEAT ltree_c_loop<br>UNTIL [TCV_counter_c>17]                                                                                                                                                            |                                                                                                                                               |                                                                |
|    | <b>ltree_c_loop</b>                                                                                                                                                                                        |                                                                                                                                               |                                                                |
| 7  | +ltreeSetLoopParameters                                                                                                                                                                                    |                                                                                                                                               |                                                                |
| 8  | (TCV_Null:=OO_InitSS(TCV_UssdString))                                                                                                                                                                      |                                                                                                                                               |                                                                |
| 9  | +ltree_MMConnection                                                                                                                                                                                        |                                                                                                                                               |                                                                |
| 10 | L?DL_EstInCmsRq                                                                                                                                                                                            | CMSerReq(CMServic<br>eReq_08)                                                                                                                 |                                                                |
| 11 | ACTIVATE(OtherEventsFail)                                                                                                                                                                                  |                                                                                                                                               | Restore Normal default                                         |
| 12 | +ltree_UssdOperation(TCV_ch)                                                                                                                                                                               |                                                                                                                                               |                                                                |
| 13 | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                   |                                                                                                                                               |                                                                |
| 14 | +ltree_continue                                                                                                                                                                                            |                                                                                                                                               |                                                                |
|    | <b>ltree_continue</b>                                                                                                                                                                                      |                                                                                                                                               |                                                                |
| 15 | +ltree_MsOrigCall                                                                                                                                                                                          |                                                                                                                                               |                                                                |
| 16 | (TCV_Null := OO_InitSS(TCV_UssdString))                                                                                                                                                                    |                                                                                                                                               |                                                                |
| 17 | +DTMFSignalling(OC_LengthOfString(TCV_Ussd<br>String), TCV_TI0, TCV_TI, TCV_chTch)                                                                                                                         |                                                                                                                                               |                                                                |
| 18 | L?DL_DatInCmsRq                                                                                                                                                                                            | CMSerDatReq(CMSer<br>viceReq_08)                                                                                                              |                                                                |
| 19 | +ltree_UssdOperation(TCV_chTch)                                                                                                                                                                            |                                                                                                                                               |                                                                |
| 20 | L!DL_DatRqDisc                                                                                                                                                                                             | DiscSnd(TCV_chTch,<br>DisconnS(TCV_TI,<br>Cause_01,<br>ProgInd_omit,<br>UuInfo_omit))                                                         |                                                                |
| 21 | L?DL_DatInRel                                                                                                                                                                                              | ReleaseRcv(Release<br>_02)                                                                                                                    |                                                                |
| 22 | L!DL_DatRqRelCmp                                                                                                                                                                                           | RelComSnd(TCV_ch<br>Tch,<br>ReleaseCmp_08(TCV<br>_TI))                                                                                        |                                                                |
| 23 | +PostMainLinkRel(TCV_chTch)                                                                                                                                                                                |                                                                                                                                               |                                                                |
| 24 | (TCV_counter_c :=<br>TCV_counter_c+1)                                                                                                                                                                      |                                                                                                                                               |                                                                |
|    | <b>ltree_MMConnection</b>                                                                                                                                                                                  |                                                                                                                                               |                                                                |
| 25 | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                           | ChReq(ChRequest_1<br>5)                                                                                                                       |                                                                |
| 26 | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                               |                                                                                                                                               | To match ChReq retrans.                                        |
| 27 | LIDL_UdatRqImm                                                                                                                                                                                             | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(0))) |                                                                |
|    | <b>ltree_MsOrigCall</b>                                                                                                                                                                                    |                                                                                                                                               |                                                                |
| 28 | +InitCall(TCV_Service)                                                                                                                                                                                     |                                                                                                                                               |                                                                |
| 29 | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                           | ChReq(ChRequest_1<br>5)                                                                                                                       |                                                                |
| 30 | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                               |                                                                                                                                               | To match ChReq retrans.                                        |
| 31 | LIDL_UdatRqImm                                                                                                                                                                                             | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,                   |                                                                |

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                 |                                                     |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| 32                                      | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                                                                 | TimingAdv(0))<br>CMSerReq(CMServic<br>eReq_01)                                                                                                                  |                                                     |
| 33                                      | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                 | Restore Normal default                              |
| 34                                      | L!DL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                | CMSerAcp(TCV_chTc<br>h, CMSerAcp_01)                                                                                                                            |                                                     |
| 35                                      | +RcvSetupOrEsetup(TCV_Setup_mo,<br>TCV_Esetup, TCV_Ecall)                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                 |                                                     |
| 36                                      | L!DL_DatRqCallProc                                                                                                                                                                                                                                                                                                                                                                              | CallProc(TCV_chTch,<br>TCV_CallProc)                                                                                                                            |                                                     |
| 37                                      | L!DL_DatRqAlert                                                                                                                                                                                                                                                                                                                                                                                 | AlertSnd(TCV_chTch,<br>Alerting_01(TCV_TI))                                                                                                                     |                                                     |
| 38                                      | L!DL_DatRqConn                                                                                                                                                                                                                                                                                                                                                                                  | ConnSnd(TCV_chTch<br>,<br>Connect_02(TCV_TI))                                                                                                                   |                                                     |
| 39                                      | L?DL_DatInConnAck                                                                                                                                                                                                                                                                                                                                                                               | ConnAckRcv(Connect<br>Ack_02( TCV_TI0))                                                                                                                         |                                                     |
| <b>Itree_UssdOperation(ch: LOGICCH)</b> |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                 |                                                     |
| 40                                      | L!DL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                | CMSerAcp(ch,<br>CMSerAcp_01)                                                                                                                                    |                                                     |
| 41                                      | L?DL_DatInRegister (TCV_TI1 :=<br>DL_DatInRegister.msg.ti, TCV_TI2 := TCV_TI,<br>TCV_TI2.ti.f := '1'B, TCV_Comp :=<br>DL_DatInRegister.msg.fie.components_1, TCV_n<br>:= OC_PosinSet(TCV_Comp,<br>ProcessUSSDReq_01(TCV_UssdString)),<br>TCV_Invkld :=<br>OC_Asn1intToOct(TCV_Comp.[TCV_n].processUn<br>structuredSSRequestComponents.processUnstruct<br>uredSSRequest_InvokeComp.invokeID, 1)) | Register_03(Register<br>Pdu_03(facilityErcv(<br>ProcessUSSDReq_01<br>(TCV_UssdString)))                                                                         | (P)                                                 |
| 42                                      | L!DL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                                                                | RelComSnd(ch,<br>ReleaseCmp_09(TCV<br>_TI2,<br>facilityEtsndiei(USSD<br>Req_01(TCV_Invkld,<br>TCV_PreviousOctets,<br>TCV_FollowingOctets<br>, TCV_UssdString))) |                                                     |
| <b>ItreeSetLoopParameters</b>           |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                 |                                                     |
| 43                                      | [TCV_counter_c=1]                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                 |                                                     |
| 44                                      | (TCV_UssdString:="*60#",<br>TCV_PreviousOctets:="O",<br>TCV_FollowingOctets:="O)                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                 | activation with no<br>supplement. information       |
| 45                                      | [TCV_counter_c=2]                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                 |                                                     |
| 46                                      | (TCV_UssdString:="*201*35#",<br>TCV_PreviousOctets:="O",<br>TCV_FollowingOctets:="O)                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                 | activation with one field of<br>sup. information    |
| 47                                      | [TCV_counter_c=3]                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                 |                                                     |
| 48                                      | (TCV_UssdString:="*70*635*562#",<br>TCV_PreviousOctets:="O",<br>TCV_FollowingOctets:="O)                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                 | activation with two fields<br>of sup. information   |
| 49                                      | [TCV_counter_c=4]                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                 |                                                     |
| 50                                      | (TCV_UssdString:="#60#",<br>TCV_PreviousOctets:="O",<br>TCV_FollowingOctets:="O)                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                 | deactivation with no<br>supplement. information     |
| 51                                      | [TCV_counter_c=5]                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                 |                                                     |
| 52                                      | (TCV_UssdString:="#201*35#",<br>TCV_PreviousOctets:="O",<br>TCV_FollowingOctets:="O)                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                 | deactivation with one field<br>of sup. information  |
| 53                                      | [TCV_counter_c=6]                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                 |                                                     |
| 54                                      | (TCV_UssdString:="#70*635*562#",<br>TCV_PreviousOctets:="O",<br>TCV_FollowingOctets:="O)                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                 | deactivation with two<br>fields of sup. information |
| 55                                      | [TCV_counter_c=7]                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                 |                                                     |
| 56                                      | (TCV_UssdString:="#60#",<br>TCV_PreviousOctets:="O",<br>TCV_FollowingOctets:="O)                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                 | interrogation with no<br>supplement. information    |
| 57                                      | [TCV_counter_c=8]                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                 |                                                     |
| 58                                      | (TCV_UssdString:="*#201*35#",<br>TCV_PreviousOctets:="O",                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                 | interrogation with one field<br>of sup. information |



|                           |                                                                                                                |  |                                                      |
|---------------------------|----------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------|
| 59                        | TCV_FollowingOctets:="O)                                                                                       |  |                                                      |
| 60                        | [TCV_counter_c=9]<br>(TCV_UssdString:="*#70*635*562#",<br>TCV_PreviousOctets:="O",<br>TCV_FollowingOctets:="O) |  | interrogation with two<br>fields of sup. information |
| 61                        | [TCV_counter_c=10]                                                                                             |  |                                                      |
| 62                        | (TCV_UssdString:="**60#",<br>TCV_PreviousOctets:="O",<br>TCV_FollowingOctets:="O)                              |  | registration with no<br>supplement. information      |
| 63                        | [TCV_counter_c=11]                                                                                             |  |                                                      |
| 64                        | (TCV_UssdString:="**201*35#",<br>TCV_PreviousOctets:="O",<br>TCV_FollowingOctets:="O)                          |  | registration with one field<br>of sup. information   |
| 65                        | [TCV_counter_c=12]                                                                                             |  |                                                      |
| 66                        | (TCV_UssdString:="**70*635*562#",<br>TCV_PreviousOctets:="O",<br>TCV_FollowingOctets:="O)                      |  | registration with two fields<br>of sup. information  |
| 67                        | [TCV_counter_c=13]                                                                                             |  |                                                      |
| 68                        | (TCV_UssdString:="##60#",<br>TCV_PreviousOctets:="O",<br>TCV_FollowingOctets:="O)                              |  | erasure with no<br>supplement. information           |
| 69                        | [TCV_counter_c=14]                                                                                             |  |                                                      |
| 70                        | (TCV_UssdString:="##201*35#",<br>TCV_PreviousOctets:="O",<br>TCV_FollowingOctets:="O)                          |  | erasure with one field of<br>sup. information        |
| 71                        | [TCV_counter_c=15]                                                                                             |  |                                                      |
| 72                        | (TCV_UssdString:="##70*635*562#",<br>TCV_PreviousOctets:="O",<br>TCV_FollowingOctets:="O)                      |  | erasure with two fields of<br>sup. information       |
| 73                        | [TCV_counter_c=16]                                                                                             |  |                                                      |
| 74                        | (TCV_UssdString:="7", TCV_PreviousOctets:="O",<br>TCV_FollowingOctets:="O)                                     |  | acc. requirement 1a<br>(GSM 11.10)                   |
| 75                        | [TCV_counter_c=17]                                                                                             |  |                                                      |
| 76                        | (TCV_UssdString:="26", TCV_PreviousOctets:="O",<br>TCV_FollowingOctets:="O)                                    |  | acc. requirement 1a<br>(GSM 11.10)                   |
| 77                        | [TCV_counter_c>17]                                                                                             |  | I                                                    |
| <b>Detailed Comments:</b> |                                                                                                                |  |                                                      |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                             |     |                                                  |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------|
| <b>Test Case Name:</b>      |       | TC_31_9_1_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                             |     |                                                  |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                             |     |                                                  |
| <b>Purpose:</b>             |       | <p>1)To verify that if a mobile initiated USSD request using protocol 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 protocol version 1 of USSD operation. The mobile station shall re-attempt the request by using the appropriate protocol version 1 USSD operation without a SS version indicator if the unstructured data entered by the user can be coded as an IA5 string.</p> <p>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).</p> |                                                                                                                                                             |     |                                                  |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                             |     |                                                  |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CRef                                                                                                                                                        | V   | Comments                                         |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                             |     |                                                  |
| 2                           |       | +BasicServiceMO(TSPX_MOBscSvcC, C_Full)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                             |     |                                                  |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, TSPX_RANDDf, 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,<br>TCV_UssdString:="*70*635*562#")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                             |     |                                                  |
| 6                           | body  | +ltree_part1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                             |     |                                                  |
| 7                           |       | +ltree_part2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                             |     |                                                  |
| 8                           |       | +ltree_part3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                             |     |                                                  |
|                             |       | <b>ltree_part1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                             |     |                                                  |
| 9                           |       | (TCV_Null:=OO_InitSS(TCV_UssdString))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                             |     |                                                  |
| 10                          |       | +ltree_MMConnection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                             |     |                                                  |
| 11                          |       | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CMSerReq(CMServic<br>eReq_08)                                                                                                                               |     |                                                  |
| 12                          |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                             |     | Restore Normal default                           |
| 13                          |       | LIDL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CMSerAcp(TCV_ch,<br>CMServicAcp_01)                                                                                                                         |     |                                                  |
| 14                          |       | L?DL_DatInRegister (TCV_TI1 :=<br>DL_DatInRegister.msg.ti, TCV_TI2 :=<br>TCV_TI1, TCV_TI2.ti_f := '1'B, TCV_Comp<br>:=<br>DL_DatInRegister.msg.fie.components_1,<br>TCV_n := OC_PosinSet(TCV_Comp,<br>ProcessUSSDReq_01(TCV_UssdString)),<br>TCV_Invkld :=<br>OC_Asn1intToOct(TCV_Comp.[TCV_n].pro<br>cessUnstructuredSSRequestComponents.p<br>rocessUnstructuredSSRequest_InvokeCom<br>p.invokeID, 1))                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Register_03(Register<br>Pdu_03(facilityErcv(<br>ProcessUSSDReq_01<br>(TCV_UssdString)))                                                                     | (P) | Invoke<br>ProcessUnstructuredUSS<br>-Request     |
| 15                          |       | LIDL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | RelComSnd(TCV_ch,<br>ReleaseCmp_09(TCV<br>_TI2,<br>facilityIEtsndiei(Proce<br>ssUSSRequest_02(T<br>CV_Invkld,<br>TCV_PreviousOctets,<br>TCV_FollowingOctets |     | Return result<br>ProcessUnstructuredUSS<br>-Data |

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                  |     |                                                  |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------|
| 16                 | L?DL_DatInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                 | ))))<br>CMSerDatReq(CMSer<br>viceReq_08)                                                                                                                         |     |                                                  |
| 17                 | LIDL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                | CMSerAcp(TCV_ch,<br>CMServiceAcp_01)                                                                                                                             |     |                                                  |
| 18                 | L?DL_DatInRegister (TCV_TI1 :=<br>DL_DatInRegister.msg.ti, TCV_TI2<br>:= TCV_TI1, TCV_TI2.ti_f := '1'B,<br>TCV_Comp :=<br>DL_DatInRegister.msg.fie.components<br>_1, TCV_n :=<br>OC_PosinSet(TCV_Comp,<br>ProcessUSSData_01(TCV_UssdStr<br>ing)), TCV_Invkld :=<br>OC_Asn1intToOct(TCV_Comp.[TC<br>V_n].processUnstructuredSSReque<br>stComponents.processUnstructured<br>SSRequest_InvokeComp.invokeID,<br>1)) | Register_03(Register<br>Pdu_03(facilityIErcv(<br>ProcessUSSData_01(<br>TCV_UssdString))))                                                                        | (P) | Invoke<br>ProcessUnstructuredUSS<br>-Data        |
| 19                 | LIDL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                                                                                | RelComSnd(TCV_ch,<br>ReleaseCmp_09(TCV<br>_TI2,<br>facilityIEtsndiei(Proce<br>ssUSSData_02(TCV_<br>Invkld,<br>TCV_PreviousOctets,<br>TCV_FollowingOctets<br>)))) |     | Return result<br>ProcessUnstructuredUSS<br>-Data |
| 20                 | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                  |     |                                                  |
| <b>ltree_part2</b> |                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                  |     |                                                  |
| 21                 | (TCV_Null:=OO_InitSS(TCV_UssdString))                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                  |     |                                                  |
| 22                 | +ltree_MMConnection                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                  |     |                                                  |
| 23                 | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                 | CMSerReq(CMServic<br>eReq_08)                                                                                                                                    |     |                                                  |
| 24                 | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                  |     | Restore Normal default                           |
| 25                 | LIDL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                | CMSerAcp(TCV_ch,<br>CMServiceAcp_01)                                                                                                                             |     |                                                  |
| 26                 | L?DL_DatInRegister (TCV_TI1 :=<br>DL_DatInRegister.msg.ti, TCV_TI2 :=<br>TCV_TI1, TCV_TI2.ti_f := '1'B, TCV_Comp<br>:=<br>DL_DatInRegister.msg.fie.components_1,<br>TCV_n := OC_PosinSet(TCV_Comp,<br>ProcessUSSDReq_01(TCV_UssdString)),<br>TCV_Invkld :=<br>OC_Asn1intToOct(TCV_Comp.[TCV_n].pro<br>cessUnstructuredSSRequestComponents.p<br>rocessUnstructuredSSRequest_InvokeCom<br>p.invokeID, 1))         | Register_03(Register<br>Pdu_03(facilityIErcv(<br>ProcessUSSDReq_01<br>(TCV_UssdString))))                                                                        | (P) | Invoke<br>ProcessUnstructuredUSS<br>-Request     |
| 27                 | LIDL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                                                                                | RelComSnd(TCV_ch,<br>ReleaseCmp_42(TCV<br>_TI2))                                                                                                                 |     | Facility rejected                                |
| 28                 | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                  |     |                                                  |
| 29                 | +ltree_MMConnection                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                  |     |                                                  |
| 30                 | L?DL_DatInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                 | CMSerDatReq(CMSer<br>viceReq_08)                                                                                                                                 |     |                                                  |
| 31                 | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                  |     | Restore Normal default                           |
| 32                 | LIDL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                | CMSerAcp(TCV_ch,<br>CMServiceAcp_01)                                                                                                                             |     |                                                  |
| 33                 | L?DL_DatInRegister<br>(TCV_TI1 :=<br>DL_DatInRegister.msg.ti,<br>TCV_TI2 := TCV_TI1,<br>TCV_TI2.ti_f := '1'B,<br>TCV_Comp :=<br>DL_DatInRegister.msg.fie.co<br>mponents_1, TCV_n :=<br>OC_PosinSet(TCV_Comp,<br>ProcessUSSData_01(TCV_U<br>ssdString)), TCV_Invkld :=<br>OC_Asn1intToOct(TCV_Comp<br>.p.[TCV_n].processUnstructur<br>edSSRequestComponents.pr                                                   | Register_03(Register<br>Pdu_03(facilityIErcv(<br>ProcessUSSData_01(<br>TCV_UssdString))))                                                                        | (P) | Invoke<br>ProcessUnstructuredUSS<br>-Data        |

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                         |                                                                                                                       |
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| 34 | <pre>                 ocessUnstructuredSSRequest                 _InvokeComp.invokeID, 1))                 L!DL_DatRqRelCmp             </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <pre>                 RelComSnd(TCV_ch,                 ReleaseCmp_09(TCV                 _TI2,                 facilitylEtsndiei(Proce                 ssUSSData_02(TCV_                 Invkld,                 TCV_PreviousOctets,                 TCV_FollowingOctets                 )))             </pre>                        | <pre>                 Return result                 ProcessUnstructuredUSS                 -Data             </pre>   |
| 35 | <pre>                 +PostMainLinkRel(TCV_c                 h)             </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                         |                                                                                                                       |
| 36 | <pre> <b>ltree_part3</b>                 REPEAT ltree_k_loop UNTIL [TCV_counter_k&gt;10]             </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                         |                                                                                                                       |
| 37 | <pre> <b>ltree_k_loop</b>                 +ltreeSetLoopParameters             </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                         |                                                                                                                       |
| 38 | <pre>                 +ltree_MsOrigCall             </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                         |                                                                                                                       |
| 39 | <pre>                 (TCV_Null:=OO_InitSS(TCV_UssdString))             </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                         |                                                                                                                       |
| 40 | <pre>                 L?DL_DatInCmsRq             </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <pre>                 CMSerDatReq(CMSer                 viceReq_08)             </pre>                                                                                                                                                                                                                                                  |                                                                                                                       |
| 41 | <pre>                 L!DL_DatRqCmsAcp             </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <pre>                 CMSerAcp(TCV_chTch,                 CServiceAcp_01)             </pre>                                                                                                                                                                                                                                            |                                                                                                                       |
| 42 | <pre>                 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].pro                 cessUnstructuredSSRequestComponents.p                 rocessUnstructuredSSRequest_InvokeCom                 p.invokeID, 1))             </pre> | <pre>                 Register_03(Register                 Pdu_03(facilitylErcv(                 ProcessUSSDReq_01                 (TCV_UssdString)))             </pre>                                                                                                                                                                | (P) Invoke<br>ProcessUnstructuredUSS<br>-Request                                                                      |
| 43 | <pre>                 +ltree_ReleaseCmpAccCounterK             </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                         |                                                                                                                       |
| 44 | <pre>                 L!DL_DatRqDisc             </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <pre>                 DiscSnd(TCV_chTch,                 DisconnS(TCV_TI2,                 Cause_01,                 ProgInd_omit,                 UuInfo_omit))             </pre>                                                                                                                                                     |                                                                                                                       |
| 45 | <pre>                 L?DL_DatInRel             </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <pre>                 ReleaseRcv(Release                 _02)             </pre>                                                                                                                                                                                                                                                        |                                                                                                                       |
| 46 | <pre>                 L!DL_DatRqRelCmp             </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <pre>                 RelComSnd(TCV_ch                 Tch,                 ReleaseCmp_08(TCV                 _TI2))             </pre>                                                                                                                                                                                                 |                                                                                                                       |
| 47 | <pre>                 +PostMainLinkRel(TCV_chTch)             </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                         |                                                                                                                       |
| 48 | <pre>                 (TCV_counter_k:=                 TCV_counter_k+1)             </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                         |                                                                                                                       |
| 49 | <pre> <b>ltree_ReleaseCmpAccCounterK</b>                 [TCV_counter_k&lt;5]             </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                         |                                                                                                                       |
| 50 | <pre>                 L!DL_DatRqRelCmp             </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <pre>                 RelComSnd(TCV_ch                 Tch,                 ReleaseCmp_09(TCV                 _TI2,                 facilitylEtsndiei(Proce                 ssUSSRequest_02(T                 CV_Invkld,                 TCV_PreviousOctets,                 TCV_FollowingOctets                 )))             </pre> | <pre>                 Return error                 ProcessUnstructuredUSS                 -Request             </pre> |
| 51 | <pre>                 [TCV_counter_k&gt;4]             </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                         |                                                                                                                       |
| 52 | <pre>                 L!DL_DatRqRelCmp             </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <pre>                 RelComSnd(TCV_ch                 Tch,                 ReleaseCmp_09(TCV                 _TI2,                 facilitylEtsndiei(Proce                 ssUSSRequest_02(T                 CV_Invkld,             </pre>                                                                                             | <pre>                 Reject                 ProcessUnstructuredUSS                 -Request             </pre>       |

|    |                                                                                  |                                                                                                                                                               |                                                   |
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|    |                                                                                  | TCV_PreviousOctets,<br>TCV_FollowingOctets<br>)))))                                                                                                           |                                                   |
|    | <b>Itree_MMConnection</b>                                                        |                                                                                                                                                               |                                                   |
| 53 | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn) | ChReq(ChRequest_1<br>5)                                                                                                                                       |                                                   |
| 54 | ACTIVATE(OtherEventsFail_02)                                                     |                                                                                                                                                               | To match ChReq retrans.                           |
| 55 | LIDL_UdatRqImm                                                                   | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(0)))                 |                                                   |
|    | <b>Itree_MsOrigCall</b>                                                          |                                                                                                                                                               |                                                   |
| 56 | +InitCall(TCV_Service)                                                           |                                                                                                                                                               |                                                   |
| 57 | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn) | ChReq(ChRequest_1<br>5)                                                                                                                                       |                                                   |
| 58 | ACTIVATE(OtherEventsFail_02)                                                     |                                                                                                                                                               | To match ChReq retrans.                           |
| 59 | LIDL_UdatRqImm                                                                   | ImmAss(TCV_agch,<br>ImmAsgn_nfh(TCV_R<br>r, TCV_Fn,<br>TCV_chtype,<br>TSPX_TmSlitDef,<br>TSPX_TscDef,<br>TimingAdv(0),<br>TCV_tch_arfcn,<br>C_normal_paging)) |                                                   |
| 60 | L?DL_EstInCmsRq                                                                  | CMSerReq(CMServic<br>eReq_01)                                                                                                                                 |                                                   |
| 61 | ACTIVATE(OtherEventsFail)                                                        |                                                                                                                                                               | Restore Normal default                            |
| 62 | LIDL_DatRqCmsAcp                                                                 | CMSerAcp(TCV_chTc<br>h, CMServiceAcp_01)                                                                                                                      |                                                   |
| 63 | +RcvSetupOrEsetup(TCV_Setup_mo,<br>TCV_Esetup, TCV_Ecall)                        |                                                                                                                                                               |                                                   |
| 64 | LIDL_DatRqCallProc                                                               | CallProc(TCV_chTch,<br>TCV_CallProc)                                                                                                                          |                                                   |
| 65 | LIDL_DatRqAlert                                                                  | AlertSnd(TCV_chTch,<br>Alerting_01(TCV_TI))                                                                                                                   |                                                   |
| 66 | LIDL_DatRqConn                                                                   | ConnSnd(TCV_chTch<br>,<br>Connect_02(TCV_TI))                                                                                                                 |                                                   |
| 67 | L?DL_DatInConnAck                                                                | ConnAckRcv(Connect<br>Ack_02( TCV_TI0))                                                                                                                       |                                                   |
|    | <b>ItreeSetLoopParameters</b>                                                    |                                                                                                                                                               |                                                   |
| 68 | [TCV_counter_k=1]                                                                |                                                                                                                                                               |                                                   |
| 69 | (TCV_PreviousOctets:='A3060201'O,<br>TCV_FollowingOctets:='020122'O)             |                                                                                                                                                               | RETURN ERR<br>Error code system failure           |
| 70 | [TCV_counter_k=2]                                                                |                                                                                                                                                               |                                                   |
| 71 | (TCV_PreviousOctets:='A3060201'O,<br>TCV_FollowingOctets:='020123'O)             |                                                                                                                                                               | RETURN ERR<br>Error code data missing             |
| 72 | [TCV_counter_k=3]                                                                |                                                                                                                                                               |                                                   |
| 73 | (TCV_PreviousOctets:='A3060201'O,<br>TCV_FollowingOctets:='020147'O)             |                                                                                                                                                               | RETURN ERR<br>Error code unknown<br>alphabet      |
| 74 | [TCV_counter_k=4]                                                                |                                                                                                                                                               |                                                   |
| 75 | (TCV_PreviousOctets:='A3060201'O,<br>TCV_FollowingOctets:='020124'O)             |                                                                                                                                                               | RETURN ERR<br>Error code unexpected<br>data value |
| 76 | [TCV_counter_k=5]                                                                |                                                                                                                                                               |                                                   |
| 77 | (TCV_PreviousOctets:='A4060201'O,<br>TCV_FollowingOctets:='800100'O)             |                                                                                                                                                               | REJECT<br>Gen. Problem<br>unrecognized component  |
| 78 | [TCV_counter_k=6]                                                                |                                                                                                                                                               |                                                   |
| 79 | (TCV_PreviousOctets:='A4060201'O,<br>TCV_FollowingOctets:='800101'O)             |                                                                                                                                                               | REJECT<br>Gen. Problem Mistyped                   |

|                           |                                                                      |   |                                                      |
|---------------------------|----------------------------------------------------------------------|---|------------------------------------------------------|
| 80                        | [TCV_counter_k=7]                                                    |   | component                                            |
| 81                        | (TCV_PreviousOctets:='A4060201'O,<br>TCV_FollowingOctets:='800102'O) |   | REJECT<br>Gen. Problem badly<br>structured component |
| 82                        | [TCV_counter_k=8]                                                    |   |                                                      |
| 83                        | (TCV_PreviousOctets:='A4060201'O,<br>TCV_FollowingOctets:='800102'O) |   | REJECT<br>Invoke Problem Mistyped<br>parameter       |
| 84                        | [TCV_counter_k=9]                                                    |   |                                                      |
| 85                        | (TCV_PreviousOctets:='A4060201'O,<br>TCV_FollowingOctets:='800103'O) |   | REJECT<br>Invoke Problem resource<br>limitation      |
| 86                        | [TCV_counter_k=10]                                                   |   |                                                      |
| 87                        | (TCV_PreviousOctets:='A4060201'O,<br>TCV_FollowingOctets:='800104'O) |   | REJECT<br>Invoke Problem initiating<br>release       |
| 88                        | [TCV_counter_k>10]                                                   | I |                                                      |
| <b>Detailed Comments:</b> |                                                                      |   |                                                      |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                 |     |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_31_9_2_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                 |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                 |     |          |
| <b>Purpose:</b>             |       | <p>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</p> <p>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".</p> <p>3) To check that the MS is able to process the operation during a call or out of a call.</p> |                                                                                                                 |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                 |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CRef                                                                                                            | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                 |     |          |
| 2                           |       | +BasicServiceMT(TSPX_MTBscSvcF, C_Full)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                 |     |          |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_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_UssdString:="Transaction OK")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                 |     |          |
| 6                           | body  | +ltree_body                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                 |     |          |
| 7                           |       | <b>ltree_body</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                 |     |          |
| 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | RegisterReq(TCV_ch, RegisterPdu_34(TCV_TI, facilityIEtsnd(NotificationSS_06(TCV_Invkld, TCV_UssdString))))      |     |          |
| 10                          |       | +CheckUssdStringDisplayed(TCV_UssdString)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                 |     |          |
| 11                          |       | L?DL_DatInFac                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | FacilityRcv(FacilityPdu_26_ci(TCV_TI0, facilityIErcv(NotificationSS_07(TCV_Invkld))))                           | (P) |          |
| 12                          |       | +CC_EstMsTermCall(TCV_ChRate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                 |     |          |
| 13                          |       | L!DL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | RelComSnd(TCV_ch Tch, 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_ch Tch, RegisterPdu_34(TCV_TI2, facilityIEtsnd(NotificationSS_06(TCV_Invkld, TCV_UssdString)))) |     |          |
| 15                          |       | +CheckUssdStringDisplayed(TCV_UssdString)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                 |     |          |
| 16                          |       | L?DL_DatInFac                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | FacilityRcv(FacilityPdu_26_ci(TCV_TI1, facilityIErcv(NotificationSS_07(TCV_Invkld, TCV_UssdString))))           | (P) |          |

|                           |                             |                                                                                      |
|---------------------------|-----------------------------|--------------------------------------------------------------------------------------|
| 16                        | L!DL_DatRqRelCmp            | V_InvkId)))<br>RelComSnd(TCV_ch<br>Tch,<br>ReleaseCmp_47(TCV<br>_TI2))               |
| 17                        | L!DL_DatRqDisc              | DiscSnd(TCV_chTch,<br>DisconnS(TI_02,<br>Cause_01,<br>ProgInd_omit,<br>UuInfo_omit)) |
| 18                        | L?DL_DatInRel               | ReleaseRcv(Release<br>_02)                                                           |
| 19                        | L!DL_DatRqRelCmp            | RelComSnd(TCV_ch<br>Tch,<br>ReleaseCmp_08(TI_0<br>2))                                |
| 20                        | +ChanRel_end(TCV_chTch<br>) |                                                                                      |
| <b>Detailed Comments:</b> |                             |                                                                                      |



| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                             |     |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_31_9_2_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                             |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                             |     |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                              |                                                                                                             |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                             |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CRef                                                                                                        | V   | 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_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_nfh, C_NCCP_2) |                                                                                                             |     |          |
| 3                           |       | (TCV_UssdString:="Transaction OK")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                             |     |          |
| 4                           | body  | +ltree_body                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                             |     |          |
|                             |       | <b>ltree_body</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                             |     |          |
| 5                           |       | +PreEstRRCConn(TCV_slot, TCV_tsc, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                             |     |          |
| 6                           |       | L!DL_DatRqRegister(TCV_TI.ti.v:='000'B, TCV_TI.ti.f:='0'B, TCV_TI0.ti.v:='000'B, TCV_TI0.ti.f:='1'B, TCV_Invkld0:='00'O)                                                                                                                                                                                                                                                                                                                                                                                                                                             | RegisterReq(TCV_ch, RegisterPdu_34(TCV_TI, facilityEtsnd(NotificationSS_06(TCV_Invkld0, TCV_UssdString))))  |     |          |
| 7                           |       | +CheckUssdStringDisplayed(TCV_UssdString)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                             |     |          |
| 8                           |       | L?DL_DatInFac                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | FacilityRcv(FacilityPdu_26_ci(TCV_TI0, facilityErcv(NotificationSS_07(TCV_Invkld0))))                       | (P) |          |
| 9                           |       | L!DL_DatRqRegister(TCV_TI2.ti.v:='001'B, TCV_TI2.ti.f:='0'B, TCV_TI1.ti.v:='001'B, TCV_TI1.ti.f:='1'B, TCV_Invkld1:='01'O)                                                                                                                                                                                                                                                                                                                                                                                                                                           | RegisterReq(TCV_ch, RegisterPdu_34(TCV_TI2, facilityEtsnd(NotificationSS_06(TCV_Invkld1, TCV_UssdString)))) |     |          |
| 10                          |       | L?DL_DatInRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | RelComRcv(ReleaseCmp_49(TCV_TI1, TCV_Invkld1))                                                              | (P) |          |
| 11                          |       | L!DL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI, facilityEtsndie(NotificationSS_08(TCV_Invkld0))))                   |     |          |
| 12                          |       | +ChanRel_end(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                             |     |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                             |     |          |

### Test Case Dynamic Behaviour

**Test Case Name:** TC\_31\_9\_2\_3

**Group:** GSM\_L3\_MS\_v4180/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.

**Default:** OtherEventsFail

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CRef                                                                                                       | V   | Comments |
|----|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----|----------|
| 1  |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                            |     |          |
| 2  |       | +BasicServiceMT(TSPX_MTBscSvcG, C_Full)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                            |     |          |
| 3  |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A, C_BCCH_A_1, C_Immass, C_S0, C_SlotNU, C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0), C_BABR_0, C_cch_1Comb, C_BPM_3, C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01, CellChDes_Omit, CellChDes_Omit, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_45, BcchFreqLst_02, BcchFreqLst_03, BcchFreqLst_04, C_Restablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCH4SubDef, TSPX_CKSNDf, 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  | body  | +ltree_body                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                            |     |          |
|    |       | <b>ltree_body</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                            |     |          |
| 7  |       | +PreEstRRConn(TCV_slot, TCV_tsc, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                            |     |          |
| 8  |       | L!DL_DatRqRegister(TCV_TI.ti.v:=010'B, TCV_TI.ti.f:=0'B, TCV_TI0.ti.v:=010'B, TCV_TI0.ti.f:=1'B, TCV_Invkld:=00'O)                                                                                                                                                                                                                                                                                                                                                                                                                                                  | RegisterReq(TCV_ch, RegisterPdu_34(TCV_TI, facilityIEtsnd(USSDR eq_03(TCV_Invkld, TCV_UssdString1))))      |     |          |
| 9  |       | +CheckUssdStringDisplayed(TCV_UssdString1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                            |     |          |
| 10 |       | (TCV_Null:=OO_InitSS(TCV_UssdString2))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                            |     |          |
| 11 |       | L?DL_DatInFac                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FacilityRcv(FacilityPdu_26_ci(TCV_TI0, facilityIErcv(USSDR eq_04(TCV_Invkld, TCV_UssdString2))))           | (P) |          |
| 12 |       | +CC_EstMsTermCall(C_Full)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                            |     |          |
| 13 |       | L!DL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | RelComSnd(TCV_ch Tch, 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_ch Tch, RegisterPdu_34(TCV_TI2, facilityIEtsnd(USSDR eq_03(TCV_Invkld, TCV_UssdString1)))) |     |          |
| 15 |       | +CheckUssdStringDisplayed(TCV_UssdString1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                            |     |          |

|                           |  |                                                                              |                                                                                                |     |  |
|---------------------------|--|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----|--|
| 16                        |  | (TCV_Null :=<br>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, facilityErcv(USSDReq_04(TCV_InvkId, TCV_UssdString2)))) | (P) |  |
| 19                        |  | LIDL_DatRqRelCmp                                                             | RelComSnd(TCV_chTch, ReleaseCmp_47(TCV_TI2))                                                   |     |  |
| 20                        |  | LIDL_DatRqDisc                                                               | DiscSnd(TCV_chTch, DisconnS(TI_02, Cause_01, ProgInd_omit, UuInfo_omit))                       |     |  |
| 21                        |  | L?DL_DatInRel                                                                | ReleaseRcv(Release_02)                                                                         |     |  |
| 22                        |  | LIDL_DatRqRelCmp                                                             | RelComSnd(TCV_chTch, ReleaseCmp_08(TI_02))                                                     |     |  |
| 23                        |  | +ChanRel_end(TCV_chTch)                                                      |                                                                                                |     |  |
| <b>Detailed Comments:</b> |  |                                                                              |                                                                                                |     |  |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                |     |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_31_9_2_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                |     |          |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                               |                                                                                                                |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                                                                           | V   | 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_UssdString1 := "Type *70*635*562# and send", TCV_UssdString2 := "**70*635*562#")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                |     |          |
| 4                           | body  | +ltree_body                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                |     |          |
| 5                           |       | <b>ltree_body</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                |     |          |
| 6                           |       | +PreEstRRConn(TCV_slot, TCV_tsc, TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                |     |          |
| 7                           |       | L!DL_DatRqRegister(TCV_TI.v:=000'B, TCV_TI.f:=0'B, TCV_TI0.v:=000'B, TCV_TI0.f:=1'B, TCV_Invkld0:=00'O)                                                                                                                                                                                                                                                                                                                                                                                                                                                               | RegisterReq(TCV_ch, RegisterPdu_34(TCV_TI, facilityEtsnd(Notificati onSS_06(TCV_Invkld 0, TCV_UssdString1))))  |     |          |
| 8                           |       | +CheckUssdStringDisplayed(TCV_UssdString1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                |     |          |
| 9                           |       | (TCV_Null:=OO_InitSS(TCV_UssdString2))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                |     |          |
| 10                          |       | L?DL_DatInFac                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | FacilityRcv(FacilityPdu_26_ci(TCV_TI0, facilityErcv(USSDReq_04(TCV_Invkld0, TCV_UssdString2))))                | (P) |          |
| 11                          |       | L!DL_DatRqRegister(TCV_TI2.v:=001'B, TCV_TI2.f:=0'B, TCV_TI1.v:=001'B, TCV_TI1.f:=1'B, TCV_Invkld1:=01'O)                                                                                                                                                                                                                                                                                                                                                                                                                                                             | RegisterReq(TCV_ch, RegisterPdu_34(TCV_TI2, facilityEtsnd(Notificati onSS_06(TCV_Invkld 1, TCV_UssdString1)))) |     |          |
| 12                          |       | L?DL_DatInRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | RelComRcv(Release Cmp_50(TCV_TI1, TCV_Invkld1))                                                                | (P) |          |
| 13                          |       | L!DL_DatRqRelCmp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | RelComSnd(TCV_ch, ReleaseCmp_09(TCV_TI, facilityEtsndiei(USSD Req_06(TCV_Invkld0 ))))                          |     |          |
| 14                          |       | +ChanRel_end(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                |     |          |

Detailed Comments:

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                        |   |                         |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---|-------------------------|
| <b>Test Case Name:</b>      |       | TC_31_10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                        |   |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/SS/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                        |   |                         |
| <b>Purpose:</b>             |       | 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)                                                                     |                                                                                                                        |   |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                        |   |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CRef                                                                                                                   | V | 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")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                        |   |                         |
|                             |       | <b>test(num:IA5String)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                        |   |                         |
| 13                          |       | (TCV_Null := OO_InitSS(num))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                        |   | 2.                      |
| 14                          |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ChReq(ChRequest_15)                                                                                                    |   |                         |
| 15                          |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                        |   | To match ChReq retrans. |
| 16                          |       | LIDL_UdatRqImmAss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, TimingAdv(0))) |   |                         |
| 17                          |       | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CMSerReq(CMServiceReq_04)                                                                                              |   |                         |
| 18                          |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                        |   | Restore Normal default  |
| 19                          |       | LIDL_DatRqCmsAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CMSerAcp(TCV_ch, CMServiceAcp_01)                                                                                      |   |                         |
| 20                          |       | L?DL_DatInSetup(TCV_TI := DL_DatInSetup.msg.ti, TCV_CalledNum := DL_DatInSetup.msg.cdprn, 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                        |   |                         |
|                             |       | <b>ltree_check(num:IA5String)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                        |   |                         |
| 26                          |       | (TCV_Res :=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                        |   | 3.                      |

|                                                                                                                                                                                                                     |                                             |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----|
| 27                                                                                                                                                                                                                  | OC_CalledNumCHK(TCV_CalledNum.digits, num)) | (P) |
| 28                                                                                                                                                                                                                  | [TCV_Res]                                   | (F) |
|                                                                                                                                                                                                                     | [NOT TCV_Res]                               |     |
| <b>Detailed Comments:</b><br>1. To setup physical channel as BCCH, CCCH and SDCCH4.<br>2. To dial the two digits number.<br>3. To check whether the received called party number is the same as the dialled number. |                                             |     |

## Test Group SM

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Case Name:</b>      |       | TC_34_2_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/SM/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
| <b>Purpose:</b>             |       | To verify the ability of a MS to receive and decode the SMS where provided for the point to point service.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CRef | V | Comments |
| 1                           |       | START T_guard(1200)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
| 2                           |       | +ltree_emptystorage(TRUE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |   |          |
| 3                           |       | (TCV_asscmd_ts := TSPX_TmSlitDef,<br>TCV_RPOA_MT:='1111111111'O,<br>TCV_TPOA1:='3333333333'O, TCV_Rpmr :=<br>'00'O)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
| 4                           |       | +BasicServiceMT(TSPX_MTBscSvcE, C_Full)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| 5                           |       | +IdleUpdated(C_E_default, C_CellA,<br>C_SCH_A, C_BCCH_A_1, C_Immass, C_S0,<br>C_SlotNU, C_SlotNU, C_SlotNU, C_BCC,<br>C_TxInt_5, C_Max_1, C_NECL_0, C_ATT_0,<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3, C_T3212_0, C_ci_cellA,<br>C_MCC_1, C_PLMN_1, C_LAC_1,<br>CellOpt_01, CellChDes_02, CellChDes_03,<br>C_CellReselectHys12, C_MaxPwrLvlG,<br>C_MaxPwrLvlD, BcchFreqLst_01,<br>BcchFreqLst_Omit, BcchFreqLst_48,<br>BcchFreqLst_Omit, C_noReestablishment,<br>C_BCC, C_NCC, C_Start_Tmsi,<br>TSPX_SDCCH4SubDef, TSPX_CKSNDDef,<br>TSPX_RANDDef, C_arfcnA, C_arfcnAd,<br>TSPX_IMSI, C_Test_fh, C_NCCP_2) |      |   |          |
| 6                           |       | +FullRateCh_A_1(C_Ass, TSPX_TmSlitDef,<br>TSPX_TscDef, ChMod_speech,<br>FreqTCH_omit, FreqTCH_omit,<br>C_arfcn_tchA, C_arfcn_tchAd,<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
| 7                           | body  | +ltree_part1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   | 1        |
| 8                           |       | +ltree_part2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   | 2        |
| 9                           |       | +ltree_part3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   | 3        |
| 10                          |       | +ltree_part4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   | 4        |
|                             |       | <b>ltree_part1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| 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                          |       | +ltree_CheckMessage(TCV_ch,<br>TRUE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
|                             |       | <b>ltree_part2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| 20                          |       | +ltree_Environment2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
| 21                          |       | +ltree_sms1(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   |          |
| 22                          |       | +ltree_CheckMessage(TCV_chTch, TRUE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
| 23                          |       | +ltree_Environment2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
| 24                          |       | +ltree_sms3(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |   |          |
| 25                          |       | +ltree_CheckMessage(TCV_chTch, TRUE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
| 26                          |       | +ltree_Environment2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
| 27                          |       | +ltree_sms4(TCV_chTch, 15)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |   |          |
| 28                          |       | +ltree_CheckMessage(TCV_chTch,<br>TRUE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |   |          |
|                             |       | <b>ltree_part3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |   |          |

|    |                                                                           |                                                                                                                                |     |                                              |
|----|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----|----------------------------------------------|
| 29 | +ltree_Environment2                                                       |                                                                                                                                |     |                                              |
| 30 | +ltree_ClearTchChannel_SS                                                 |                                                                                                                                |     |                                              |
| 31 | +ltree_sms1(TCV_chTch)                                                    |                                                                                                                                |     |                                              |
| 32 | +ltree_CheckMessage(TCV_chTch, TRUE)                                      |                                                                                                                                |     |                                              |
|    | <b>ltree_part4</b>                                                        |                                                                                                                                |     |                                              |
| 33 | +ltree_Environment2                                                       |                                                                                                                                |     |                                              |
| 34 | +ltree_ClearTchChannel_MS                                                 |                                                                                                                                |     |                                              |
| 35 | +ltree_CheckMessage(TCV_chTch, TRUE)                                      |                                                                                                                                |     |                                              |
|    | <b>ltree_Environment1</b>                                                 |                                                                                                                                |     |                                              |
| 36 | +RRmtcallprepare(TimingAdv(0))                                            |                                                                                                                                |     |                                              |
| 37 | (TCV_CPDataRetx := 0, TCV_ti_v_2 := '000'B,<br>TCV_chSms := TCV_ch)       |                                                                                                                                |     |                                              |
| 38 | +ltree_set_sapi3_SDCCH                                                    |                                                                                                                                |     |                                              |
|    | <b>ltree_Environment2</b>                                                 |                                                                                                                                |     |                                              |
| 39 | +Est_MT_CallNonFH(TimingAdv(0), C_Full)                                   |                                                                                                                                |     |                                              |
| 40 | (TCV_CPDataRetx := 0, TCV_ti_v_2 := '000'B,<br>TCV_chSms := C_SACCHF_A_1) |                                                                                                                                |     |                                              |
| 41 | +ltree_set_sapi3_SACCH                                                    |                                                                                                                                |     |                                              |
|    | <b>ltree_set_sapi3_SDCCH</b>                                              |                                                                                                                                |     |                                              |
| 42 | L!DL_EstRq                                                                | DLEstRq(TCV_ch)                                                                                                                |     | SABM(SAPI=3)                                 |
| 43 | L?DL_EstCo                                                                | DLEstCo(TCV_ch)                                                                                                                |     | UA(SAPI=3)                                   |
|    | <b>ltree_set_sapi3_SACCH</b>                                              |                                                                                                                                |     |                                              |
| 44 | L!DL_EstRq                                                                | DLEstRq(TCV_chSms)                                                                                                             |     | SABM(SAPI=3)                                 |
| 45 | L?DL_EstCo                                                                | DLEstCo(TCV_chSms)                                                                                                             |     | UA(SAPI=3)                                   |
|    | <b>ltree_ClearTchChannel_SS</b>                                           |                                                                                                                                |     |                                              |
| 46 | L!DL_DatRqDisc                                                            | DiscSnd(TCV_chTch,<br>DisconnS(TI_02,<br>Cause_01,<br>ProgInd_omit,<br>UuInfo_omit))                                           |     |                                              |
| 47 | L?DL_DatInRel                                                             | ReleaseRcv(Release_10(TI_01))                                                                                                  | (P) |                                              |
| 48 | L!DL_DatRqRelCmp                                                          | RelComSnd(TCV_chTch,<br>ReleaseCmp_08(TI_02))                                                                                  |     |                                              |
|    | <b>ltree_ClearTchChannel_MS</b>                                           |                                                                                                                                |     |                                              |
| 49 | (TCV_Null := OO_TermCall())                                               |                                                                                                                                |     |                                              |
| 50 | L?DL_DatInDisc                                                            | DiscRcv(TCV_chTch,<br>DisconnR(TI_01,<br>Cause_Def))                                                                           | (P) |                                              |
| 51 | L!DL_DatRqCpData START T_dly(25000)                                       | DatRqCpData(CpDataPdu_01(TI_07(TCV_ti_v_2),<br>CpData_01(TCV_TP OA1,<br>TCV_RPOA_MT,<br>TCV_Rpmr,<br>C_Tzone0)),<br>TCV_chSms) |     | CP-DATA including RP-Data(SMS DELIVER) n->ms |
| 52 | L!DL_DatRqRel                                                             | ReleaseSnd(TCV_chTch,<br>Release_08(TI_02))                                                                                    |     |                                              |
| 53 | L?DL_DatInRelCmp                                                          | RelComRcv(ReleaseCmp_03(TI_01))                                                                                                |     |                                              |
| 54 | ?TIMEOUT T_dly                                                            |                                                                                                                                | (F) |                                              |
| 55 | L?DL_DatInCpDataAck START T_dly(60000)                                    | DatInCpDataAck(CpDataAckPdu_01(TI_08(TCV_ti_v_2)))                                                                             |     | CP-ACK ms->n                                 |
| 56 | ?TIMEOUT T_dly                                                            |                                                                                                                                | (F) |                                              |



|    |                                                                                                                                             |                                                                                                                 |                                                                 |
|----|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| 57 | L?DL_DatInCpData CANCEL T_dly                                                                                                               | DatInCpData(TCV_ch Tch, CpDataPdu_02(TI_08 (TCV_ti_v_2), CpData_02(TCV_Rp mr)))                                 | CP-DATA including RP-Ack ms->n                                  |
| 58 | L!DL_DatRqCpDataAck                                                                                                                         | DatRqCpDataAck(Cp DataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)                                                  | CP-ACK n->ms                                                    |
| 59 | <b>Itree_sms1(ch: LOGICCH)</b><br>+Itree_sms2(ch)                                                                                           |                                                                                                                 |                                                                 |
| 60 | L!DL_DatRqCpDataAck                                                                                                                         | DatRqCpDataAck(Cp DataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)                                                  | CP-ACK n->ms                                                    |
| 61 | <b>Itree_sms2(ch: LOGICCH)</b><br>L!DL_DatRqCpData ( TCV_SMcntns := DL_DatRqCpData.msg.CPdata.rpdata.rpusdat.tpdeler.ud) START T_dly(25000) | DatRqCpData(CpDataPdu_01(TI_07(TCV_ti_v_2), CpData_01(TCV_TP OA1, TCV_RPOA_MT, TCV_Rpmr, C_Tzone0)), TCV_chSms) | CP-DATA including RP-Data(SMS DELIVER) n->ms                    |
| 62 | ?TIMEOUT T_dly                                                                                                                              |                                                                                                                 | (F)                                                             |
| 63 | L?DL_DatInCpDataAck START T_dly(60000)                                                                                                      | DatInCpDataAck(CpDataAckPdu_01(TI_08(TCV_ti_v_2)))                                                              | CP-ACK ms->n                                                    |
| 64 | ?TIMEOUT T_dly                                                                                                                              |                                                                                                                 | (F)                                                             |
| 65 | L?DL_DatInCpData CANCEL T_dly                                                                                                               | DatInCpData(ch, CpDataPdu_02(TI_08 (TCV_ti_v_2), CpData_02(TCV_Rp mr)))                                         | CP-DATA including RP-Ack ms->n                                  |
| 66 | <b>Itree_sms3(ch: LOGICCH)</b><br>+Itree_sms2(ch)                                                                                           |                                                                                                                 |                                                                 |
| 67 | START T_dly(TCV_T_TwiceTC1M)                                                                                                                |                                                                                                                 |                                                                 |
| 68 | ?TIMEOUT T_dly                                                                                                                              |                                                                                                                 | (F) First CP-DATA(Rp-Ack) not acknowledged                      |
| 69 | L?DL_DatInCpData CANCEL T_dly                                                                                                               | DatInCpData(ch, CpDataPdu_02(TI_08 (TCV_ti_v_2), CpData_02(TCV_Rp mr)))                                         | CP-DATA(RP-Ack) retransmitted                                   |
| 70 | L!DL_DatRqCpDataAck                                                                                                                         | DatRqCpDataAck(Cp DataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)                                                  | Second CP-DATA(Rp-Ack) acknowledged                             |
| 71 | <b>Itree_sms4(ch: LOGICCH; time: INTEGER)</b><br>+Itree_sms2(ch)                                                                            |                                                                                                                 |                                                                 |
| 72 | REPEAT Itree_sms5(ch) UNTIL [TCV_CPDataRetx = TSPX_MaxCPDataRetx]                                                                           |                                                                                                                 | CP-DATA(RP-Ack) retransmitted                                   |
| 73 | START T_dly(((TSPX_TC1M + time) * 1000))                                                                                                    |                                                                                                                 |                                                                 |
| 74 | L?DL_DatInCpData CANCEL T_dly                                                                                                               | DatInCpData(ch, CpDataPdu_02(TI_08 (TCV_ti_v_2), CpData_02(TCV_Rp mr)))                                         | (F) RP-Ack shall not be sent more than TSPX_MaxCPDataRetx times |
| 75 | ?TIMEOUT T_dly                                                                                                                              |                                                                                                                 | (P)                                                             |
| 76 | <b>Itree_sms5(ch: LOGICCH)</b><br>START T_dly(TCV_T_TwiceTC1M)                                                                              |                                                                                                                 |                                                                 |
| 77 | ?TIMEOUT T_dly                                                                                                                              |                                                                                                                 | (F)                                                             |
| 78 | L?DL_DatInCpData CANCEL T_dly                                                                                                               | DatInCpData(ch, CpDataPdu_02(TI_08 (TCV_ti_v_2),                                                                | CP-DATA (RP-Ack) ms->n                                          |

|                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                    |                           |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----|
| 79                                                                                                                                                                                                                                                                                                                                                                                               | (TCV_CPDataRetx := TCV_CPDataRetx + 1)                                                                                             | CpData_02(TCV_Rp<br>mr))) |     |
| 80                                                                                                                                                                                                                                                                                                                                                                                               | <b>Itree_CheckMessage(ch: LOGICCH;<br/>Emptying:BOOLEAN)</b>                                                                       |                           |     |
| 81                                                                                                                                                                                                                                                                                                                                                                                               | +ChanRel(ch)<br>(TCV_Null := OM_CphMd(TCV_ch, CphMod_02,<br>TCV_CphKey), TCV_Res :=<br>OO_CheckMessageDisplayed(160, TCV_SMcntns)) |                           |     |
| 82                                                                                                                                                                                                                                                                                                                                                                                               | [NOT TCV_Res]                                                                                                                      |                           | (F) |
| 83                                                                                                                                                                                                                                                                                                                                                                                               | +Itree_emptystorage(Emptying)                                                                                                      |                           |     |
| 84                                                                                                                                                                                                                                                                                                                                                                                               | [TCV_Res]                                                                                                                          |                           | (P) |
| 85                                                                                                                                                                                                                                                                                                                                                                                               | +Itree_emptystorage(Emptying)                                                                                                      |                           |     |
| 86                                                                                                                                                                                                                                                                                                                                                                                               | <b>Itree_emptystorage(Emptying:BOOLEAN)</b>                                                                                        |                           |     |
| 87                                                                                                                                                                                                                                                                                                                                                                                               | [Emptying]                                                                                                                         |                           |     |
| 88                                                                                                                                                                                                                                                                                                                                                                                               | (TCV_Null := OO_EmptyMessageStorage())<br>[NOT Emptying]                                                                           |                           |     |
| <b>Detailed Comments:</b> <ul style="list-style-type: none"> <li>1: Parts a) to f) of the test procedure as described in GSM 11.10, 34.2.1</li> <li>2: Parts g) to j) of the test procedure as described in GSM 11.10, 34.2.1</li> <li>3: Part k) of the test procedure as described in GSM 11.10, 34.2.1</li> <li>4: Part l) of the test procedure as described in GSM 11.10, 34.2.1</li> </ul> |                                                                                                                                    |                           |     |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |     |                 |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|-----------------|
| <b>Test Case Name:</b>      |       | TC_34_2_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |     |                 |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/SM/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |     |                 |
| <b>Purpose:</b>             |       | 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.                                                                                                                                                                                                                                                                                                                                                                   |      |     |                 |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |     |                 |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Cref | V   | Comments        |
| 1                           |       | START T_guard(1200)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |     |                 |
| 2                           |       | (TCV_Null:=OO_EmptyMessageStorage(),<br>TCV_asscmd_ts := TSPX_TmSltDef,<br>TCV_RPOA_MT:='1111111111'O,<br>TCV_TPOA1:='5555555555'O)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |     |                 |
| 3                           |       | +BasicServiceMT(TSPX_MTBscSvcF, C_Full)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |     |                 |
| 4                           |       | +IdleUpdated(C_E_default, C_Cella,<br>C_SCH_A, C_BCCH_A_1, C_Immass, C_S0,<br>C_SlotNU, C_SlotNU, C_SlotNU, C_BCC,<br>C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0,<br>TimingAdv(0), C_BABR_0, C_cch_1Comb,<br>C_BPM_3, C_T3212_0, C_ci_cellA,<br>C_MCC_1, C_PLMN_1, C_LAC_1, CellOpt_01,<br>CellChDes_02, CellChDes_03,<br>C_CellReselectHys12, C_MaxPwrLvlG,<br>C_MaxPwrLvlD, BcchFreqLst_01,<br>BcchFreqLst_Omit, BcchFreqLst_48,<br>BcchFreqLst_Omit, C_noReestablishment,<br>C_BCC, C_NCC, C_Start_Tmsi,<br>TSPX_SDCCH4SubDef, TSPX_CKSNDf,<br>TSPX_RANDDef, C_arfcnA, C_arfcnAd,<br>TSPX_IMSI, C_Test_fh, C_NCCP_2) |      |     |                 |
| 5                           |       | +FullRateCh_A_1(C_Ass, TSPX_TmSltDef,<br>TSPX_TscDef, ChMod_speech,<br>FreqTCH_omit, FreqTCH_omit,<br>C_arfcn_tchA, C_arfcn_tchAd, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3)                                                                                                                                                                                                                                                                                                                                                                                                                                |      |     |                 |
| 6                           | body  | +ltree_part1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |     | 1               |
| 7                           |       | +ltree_part2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |     | 2               |
| 8                           |       | +ltree_part3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |     | 3               |
| 9                           |       | +ltree_part4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |     | 4               |
|                             |       | <b>ltree_part1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |     |                 |
| 10                          |       | +ltree_Environment1_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |     |                 |
| 11                          |       | +ltree_sms1(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |     |                 |
| 12                          |       | +ltree_ChanRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |     |                 |
| 13                          |       | +ltree_Environment1_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |     |                 |
| 14                          |       | +ltree_sms3(TCV_ch, 5)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |     |                 |
| 15                          |       | +ltree_Environment1_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |     |                 |
| 16                          |       | +ltree_sms4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |     | CP-Error        |
| 17                          |       | +ltree_ChanRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |     |                 |
|                             |       | <b>ltree_part2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |     |                 |
| 18                          |       | +ltree_Environment2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |     |                 |
| 19                          |       | +ltree_sms1(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |     |                 |
| 20                          |       | +ltree_ChanRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |     |                 |
| 21                          |       | +ltree_Environment2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |     |                 |
| 22                          |       | +ltree_sms3(TCV_chTch, 15)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |     |                 |
|                             |       | <b>ltree_part3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |     |                 |
| 23                          |       | +ltree_Environment1_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |     |                 |
| 24                          |       | +ltree_sms5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |     | MT-SM           |
| 25                          |       | +ltree_sms2(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |     | Terminate MO-SM |
| 26                          |       | +ltree_ChanRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |     |                 |
| 27                          |       | (TCV_Res :=<br>OO_CheckMessageDisplayed(160,<br>TCV_SMcntns))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |     |                 |
| 28                          |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      | (F) |                 |
| 29                          |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      | (P) |                 |

|    |                                                                                                                                                  |                                                                                                                                               |                                        |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| 30 | <b>ltree_part4</b>                                                                                                                               |                                                                                                                                               |                                        |
| 31 | +ltree_Environment4<br>+ChanRel_end(TCV_ch)                                                                                                      |                                                                                                                                               |                                        |
| 32 | <b>ltree_init</b><br>(TCV_Null:=OO_SendMOShortMessage())                                                                                         |                                                                                                                                               |                                        |
| 33 | L?DL_RaInChRq ( TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                | ChReq(ChRequest_0<br>4)                                                                                                                       | To match ChReq retrans.                |
| 34 | ACTIVATE(OtherEventsFail_02)                                                                                                                     |                                                                                                                                               |                                        |
| 35 | LIDL_UdatRqImmss                                                                                                                                 | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(0))) |                                        |
| 36 | L?DL_EstInCmsRq                                                                                                                                  | CMSerReq(CMServic<br>eReq_09)                                                                                                                 |                                        |
| 37 | ACTIVATE(OtherEventsFail)                                                                                                                        |                                                                                                                                               | Restore normal default<br>tree         |
| 38 | <b>ltree_Environment1_3</b>                                                                                                                      |                                                                                                                                               |                                        |
| 39 | +ltree_init                                                                                                                                      |                                                                                                                                               |                                        |
| 40 | +Authentication(TCV_ch, TCV_cksn,<br>TSPX_RANDDef)                                                                                               |                                                                                                                                               |                                        |
| 41 | +Cipherring_on(TCV_ch)<br>+ltree_set_sapi3_SDCCH                                                                                                 |                                                                                                                                               |                                        |
| 42 | <b>ltree_Environment2</b>                                                                                                                        |                                                                                                                                               |                                        |
| 43 | +Est_MT_CallNonFH(TimingAdv(0), C_Full)<br>(TCV_Null := OO_SendMOShortMessage())                                                                 |                                                                                                                                               |                                        |
| 44 | L?DL_DatInCmsRq                                                                                                                                  | CMSerDatReq(CMSer<br>viceReq_09)                                                                                                              |                                        |
| 45 | LIDL_DatRqCmsAcp                                                                                                                                 | CMSerAcp(TCV_chTc<br>h, CMSerAcp_01)                                                                                                          |                                        |
| 46 | +ltree_set_sapi3_SACCH                                                                                                                           |                                                                                                                                               |                                        |
| 47 | <b>ltree_Environment4</b>                                                                                                                        |                                                                                                                                               |                                        |
| 48 | +ltree_init                                                                                                                                      |                                                                                                                                               |                                        |
| 49 | LIDL_DatRqCmsRej                                                                                                                                 | CMSerRej(TCV_ch,<br>CMSerRej_03)                                                                                                              | Service Option not<br>supported        |
| 50 | START T_dly(5000)                                                                                                                                |                                                                                                                                               | (P)                                    |
| 51 | ?TIMEOUT T_dly<br>L?DL_EstIn CANCEL T_dly                                                                                                        | DLEstInd(TCV_ch)                                                                                                                              | (F) SAPI-3 shall NOT be<br>established |
| 52 | <b>ltree_sms1(ch: LOGICCH)</b><br>L?DL_DatInCpData(TCV_Rpmr :=<br>DL_DatInCpData.msg.CPdata.rpdata.rpmr, TCV_ti_v<br>:= DL_DatInCpData.msg.ti.v) | DatInCpData(ch,<br>CpDataPdu_03(CpDa<br>ta_03(RpData_03)))                                                                                    | CP-DATA(RP-Data SMS<br>SUBMIT)         |
| 53 | +ltree_sms2(ch)                                                                                                                                  |                                                                                                                                               | Terminate MO-SM                        |
| 54 | <b>ltree_sms2(ch: LOGICCH)</b><br>LIDL_DatRqCpDataAck                                                                                            | DatRqCpDataAck(Cp<br>DataAckPdu_01(TI_0<br>8(TCV_ti_v)),<br>TCV_chSms)                                                                        | CP-ACK n->ms                           |
| 55 | LIDL_DatRqCpData START T_dly(25000)                                                                                                              | DatRqCpData(CpDat<br>aPdu_02(TI_08(TCV_<br>ti_v),<br>CpData_04(TCV_Rp<br>mr)), TCV_chSms)                                                     | CP-DATA(RP-Ack) n-<br>>ms              |
| 56 | ?TIMEOUT T_dly                                                                                                                                   |                                                                                                                                               | (F)                                    |
| 57 | +ChanRel(ch)                                                                                                                                     |                                                                                                                                               |                                        |
| 58 | L?DL_DatInCpDataAck CANCEL T_dly                                                                                                                 | DatInCpDataAck(CpD<br>ataAckPdu_02(TI_07(<br>TCV_ti_v)))                                                                                      | (P) CP-ACK ms->n                       |

|    |                                                                                                                       |                                                                                                                |                                                                                      |
|----|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|    | <b>ltree_sms3(ch: LOGICCH; t:INTEGER)</b>                                                                             |                                                                                                                |                                                                                      |
| 59 | L?DL_DatInCpData(TCV_Rpmr := DL_DatInCpData.msg.CPdata.rpdata.rpmr, TCV_ti_v := DL_DatInCpData.msg.ti.v)              | DatInCpData(ch, CpDataPdu_03(CpData_03(RpData_03)))                                                            | CP-DATA(RP-Data SMS SUBMIT)                                                          |
| 60 | REPEAT ltree_sms6(ch) UNTIL [TCV_CPDDataRetx = TSPX_MaxCPDataRetx]                                                    |                                                                                                                | MO-SM is retransmitted                                                               |
| 61 | START T_dly(((TSPX_TC1M + t) * 1000))                                                                                 |                                                                                                                |                                                                                      |
| 62 | L?DL_DatInCpData(TCV_Rpmr := DL_DatInCpData.msg.CPdata.rpdata.rpmr, TCV_ti_v := DL_DatInCpData.msg.ti.v)              | DatInCpData(ch, CpDataPdu_03(CpData_03(RpData_03)))                                                            | (F) RP-Data(RP Data SMS SUBMIT) shall NOT be sent more than TSPX_MaxCPDataRetx times |
| 63 | +ChanRel(ch)                                                                                                          |                                                                                                                |                                                                                      |
| 64 | ?TIMEOUT T_dly                                                                                                        |                                                                                                                |                                                                                      |
| 65 | +ltree_ChanRel(ch)                                                                                                    |                                                                                                                |                                                                                      |
|    | <b>ltree_sms4</b>                                                                                                     |                                                                                                                |                                                                                      |
| 66 | L?DL_DatInCpData(TCV_Rpmr := DL_DatInCpData.msg.CPdata.rpdata.rpmr, TCV_ti_v := DL_DatInCpData.msg.ti.v)              | DatInCpData(TCV_ch Sms, CpDataPdu_03(CpData_03(RpData_03)))                                                    | CP-DATA(RP-Data SMS SUBMIT)                                                          |
| 67 | LIDL_DatRqCpError                                                                                                     | DatRqCpError(CpErrPdu_01(TI_08(TCV_ti_v)), TCV_chSms)                                                          | CP error n->ms "Network Failure"                                                     |
|    | <b>ltree_sms5</b>                                                                                                     |                                                                                                                |                                                                                      |
| 68 | L?DL_DatInCpData(TCV_Rpmr := DL_DatInCpData.msg.CPdata.rpdata.rpmr, TCV_ti_v := DL_DatInCpData.msg.ti.v)              | DatInCpData(TCV_ch Sms, CpDataPdu_03(CpData_03(RpData_03)))                                                    | CP-DATA(RP-Data SMS SUBMIT)                                                          |
| 69 | +ltree_ti                                                                                                             |                                                                                                                |                                                                                      |
| 70 | LIDL_DatRqCpData (TCV_SMcntns := DL_DatRqCpData.msg.CPdata.rpdata.rpusrdat.tp.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_Tzone1)), TCV_chSms) | CP-DATA(RP-Data SMS DELIVER), n->ms                                                  |
| 71 | ?TIMEOUT T_dly                                                                                                        |                                                                                                                | (F)                                                                                  |
| 72 | +ChanRel(TCV_ch)                                                                                                      |                                                                                                                |                                                                                      |
| 73 | L?DL_DatInCpDataAck START T_dly(60000)                                                                                | DatInCpDataAck(CpDataAckPdu_01(TI_08(TCV_ti_v_2)))                                                             | (P) CP-ACK ms->n                                                                     |
| 74 | ?TIMEOUT T_dly                                                                                                        |                                                                                                                | (F)                                                                                  |
| 75 | +ChanRel(TCV_ch)                                                                                                      |                                                                                                                |                                                                                      |
| 76 | L?DL_DatInCpData CANCEL T_dly                                                                                         | DatInCpData(TCV_ch Sms, CpDataPdu_02(TI_08(TCV_ti_v_2), CpData_02(TCV_Rpmr)))                                  | (P) CP-DATA(RP-Ack) n->ms                                                            |
| 77 | LIDL_DatRqCpDataAck                                                                                                   | DatRqCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)                                                  |                                                                                      |
|    | <b>ltree_sms6(ch: LOGICCH)</b>                                                                                        |                                                                                                                |                                                                                      |
| 78 | START T_dly(TCV_T_TwiceTC1M)                                                                                          |                                                                                                                |                                                                                      |
| 79 | ?TIMEOUT T_dly                                                                                                        |                                                                                                                | (F)                                                                                  |
| 80 | +ChanRel(ch)                                                                                                          |                                                                                                                |                                                                                      |
| 81 | L?DL_DatInCpData(TCV_Rpmr := DL_DatInCpData.msg.CPdata.rpdata.rpmr, TCV_ti_v := DL_DatInCpData.msg.ti.v) CANCEL T_dly | DatInCpData(ch, CpDataPdu_03(CpData_03(RpData_03)))                                                            | CP-DATA(RP-Data SMS SUBMIT)                                                          |
| 82 | (TCV_CPDDataRetx := TCV_CPDDataRetx + 1)                                                                              |                                                                                                                |                                                                                      |
|    | <b>ltree_set_sapi3_SDCCH</b>                                                                                          |                                                                                                                |                                                                                      |
| 83 | L?DL_EstIn                                                                                                            | DLEstIn(TCV_ch)                                                                                                |                                                                                      |
| 84 | (TCV_CPDDataRetx := 0, TCV_chSms := TCV_ch)                                                                           |                                                                                                                |                                                                                      |

|                                                                             |                                                                    |                  |  |  |
|-----------------------------------------------------------------------------|--------------------------------------------------------------------|------------------|--|--|
| 85                                                                          | <b>ltree_set_sapi3_SACCH</b>                                       |                  |  |  |
| 86                                                                          | L?DL_EstIn<br>(TCV_CPDDataRetx := 0, TCV_chSms :=<br>C_SACCHF_A_1) | DLEstInd(TCV_ch) |  |  |
| 87                                                                          | <b>ltree_ti</b><br>[TCV_ti_v='000'B]                               |                  |  |  |
| 88                                                                          | (TCV_ti_v_2:='001'B)                                               |                  |  |  |
| 89                                                                          | [NOT(TCV_ti_v='000'B)]                                             |                  |  |  |
| 90                                                                          | (TCV_ti_v_2:='000'B)                                               |                  |  |  |
| 91                                                                          | <b>ltree_ChanRel(ch: LOGICCH)</b><br>+ChanRel(ch)                  |                  |  |  |
| 92                                                                          | (TCV_Null := OM_CphMd(TCV_ch, CphMod_02,<br>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 |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                               |   |                                |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---|--------------------------------|
| <b>Test Case Name:</b>      |       | TC_34_2_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                               |   |                                |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/SM/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                               |   |                                |
| <b>Purpose:</b>             |       | 1. To verify that the MS sends the correct acknowledgement when its memory in the SIM becomes full.<br>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.<br>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.                                                                                                                                                        |                                                                                                                                               |   |                                |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                               |   |                                |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | CRef                                                                                                                                          | V | Comments                       |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                               |   |                                |
| 2                           |       | (TCV_Null := OO_EmptyMessageStorage(),<br>TCV_Null :=<br>OO_MSSetupStoreClass1SMInMEMemory(),<br>TCV_Null := OO_ConnectSIMSimulator(),<br>TCV_RPOA_MT:='1111111111'O,<br>TCV_TPOA1:='3333333333'O, TCV_Rpmr:='00'O)                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                               |   |                                |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_02,<br>CellChDes_03, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_01, BcchFreqLst_Omit,<br>BcchFreqLst_48, BcchFreqLst_Omit,<br>C_noReestablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA,<br>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                           |       | <b>ltree_part1</b><br>(TCV_ProtErrorUnspec := FALSE,<br>TCV_MemCapExcd := FALSE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                               |   |                                |
| 9                           |       | REPEAT ltree_sms1<br>UNTIL [(TCV_ProtErrorUnspec)<br>OR(TCV_MemCapExcd)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                               |   |                                |
| 10                          |       | <b>ltree_part2</b><br>(TCV_MemCapExcd := FALSE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                               |   |                                |
| 11                          |       | REPEAT ltree_sms2 UNTIL [TCV_MemCapExcd]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                               |   |                                |
| 12                          |       | <b>ltree_Environment</b><br>+RRmtcallprepare(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                               |   |                                |
| 13                          |       | +ltree_set_sapi3_SDCCH_MT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                               |   |                                |
| 14                          |       | (TCV_ti_v_2:='000'B, TCV_chSms:=TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                               |   |                                |
| 15                          |       | <b>ltree_Environment2</b><br>L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ChReq(ChRequest_0<br>4)                                                                                                                       |   |                                |
| 16                          |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                               |   | To match ChReq retrans.        |
| 17                          |       | LIDL_UdatRqImmass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(0))) |   |                                |
| 18                          |       | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CMSerReq(CMServic<br>eReq_09)                                                                                                                 |   |                                |
| 19                          |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                               |   | Restore normal default<br>tree |

|    |                                                                                       |                                                                                                                 |     |                                                   |
|----|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----|---------------------------------------------------|
| 20 | +Authentication(TCV_ch, TCV_cksn,<br>TSPX_RANDDef)                                    |                                                                                                                 |     |                                                   |
| 21 | +Cipherring_on(TCV_ch)                                                                |                                                                                                                 |     |                                                   |
| 22 | +ltree_set_sapi3_SDCCH_MO                                                             |                                                                                                                 |     |                                                   |
| 23 | (TCV_chSms:=TCV_ch)                                                                   |                                                                                                                 |     |                                                   |
|    | <b>ltree_sms1</b>                                                                     |                                                                                                                 |     |                                                   |
| 24 | +ltree_Environment                                                                    |                                                                                                                 |     |                                                   |
| 25 | L!DL_DatRqCpData START T_dly(25000)                                                   | DatRqCpData(CpDataPdu_01(TI_07(TCV_ti_v_2), CpData_05(TCV_TP OA1, TCV_RPOA_MT, TCV_Rpmr, C_Tzone2)), TCV_chSms) |     | CP-DATA(RP-Data SMS DELIVER), n->ms class 2 MT-SM |
| 26 | ?TIMEOUT T_dly                                                                        |                                                                                                                 | (F) |                                                   |
| 27 | +ChanRel(TCV_ch)                                                                      |                                                                                                                 |     |                                                   |
| 28 | L?DL_DatInCpDataAck START T_dly(60000)                                                | DatInCpDataAck(CpDataAckPdu_01(TI_08(TCV_ti_v_2)))                                                              | (P) | CP-ACK ms->n                                      |
| 29 | ?TIMEOUT T_dly                                                                        |                                                                                                                 | (F) |                                                   |
| 30 | +ChanRel(TCV_ch)                                                                      |                                                                                                                 |     |                                                   |
| 31 | L?DL_DatInCpData CANCEL T_dly                                                         | DatInCpData(TCV_chSms, CpDataPdu_02(TI_08(TCV_ti_v_2), CpData_02(TCV_Rpmr)))                                    | (P) | CP-DATA(RP-Ack) ms->n                             |
| 32 | LIDL_DatRqCpDataAck CANCEL T_dly                                                      | DatRqCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)                                                   |     | CP-ACK n->ms                                      |
| 33 | +ChanRel(TCV_ch)                                                                      |                                                                                                                 |     |                                                   |
| 34 | (TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey))                                 |                                                                                                                 |     |                                                   |
| 35 | L?DL_DatInCpData CANCEL T_dly                                                         | DatInCpData(TCV_chSms, CpDataPdu_02(TI_08(TCV_ti_v_2), CpData_07(TCV_Rpmr)))                                    | (P) | CP-DATA(RP-Error: Protocol Error, unspecified)    |
| 36 | LIDL_DatRqCpDataAck                                                                   | DatRqCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)                                                   |     | CP-ACK n->ms                                      |
| 37 | (TCV_ProtErrorUnspec := TRUE)                                                         |                                                                                                                 |     | SMS storage in SIM full                           |
| 38 | +ChanRel(TCV_ch)                                                                      |                                                                                                                 |     |                                                   |
| 39 | (TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey))                                 |                                                                                                                 |     |                                                   |
| 40 | L?DL_DatInCpData CANCEL T_dly                                                         | DatInCpData(TCV_chSms, CpDataPdu_02(TI_08(TCV_ti_v_2), CpData_08(TCV_Rpmr)))                                    | (P) | CP-DATA(RP-Error: Memory Capacity Exceeded)       |
| 41 | LIDL_DatRqCpDataAck                                                                   | DatRqCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)                                                   |     | CP-ACK n->ms                                      |
| 42 | (TCV_MemCapExcd := TRUE)                                                              |                                                                                                                 |     | SMS storage in ME + SIM full                      |
| 43 | +ChanRel(TCV_ch)                                                                      |                                                                                                                 |     |                                                   |
| 44 | (TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey), TCV_Res := OO_CheckMCEFOnSIM()) |                                                                                                                 |     |                                                   |
| 45 | [NOT TCV_Res]                                                                         |                                                                                                                 | (F) |                                                   |
| 46 | [TCV_Res]                                                                             |                                                                                                                 | (P) |                                                   |
|    | <b>ltree_sms2</b>                                                                     |                                                                                                                 |     |                                                   |
| 47 | +ltree_Environment                                                                    |                                                                                                                 |     |                                                   |



|    |                                                                                        |                                                                                                                 |                                                    |
|----|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| 48 | L!DL_DatRqCpData START T_dly(25000)                                                    | DatRqCpData(CpDataPdu_01(TI_07(TCV_ti_v_2), CpData_06(TCV_TP OA1, TCV_RPOA_MT, TCV_Rpmr, C_Tzone2)), TCV_chSms) | CP-DATA(RP-Data SMS DELIVER), n->ms, class 1 MT-SM |
| 49 | ?TIMEOUT T_dly                                                                         |                                                                                                                 | (F)                                                |
| 50 | +ChanRel(TCV_ch)                                                                       |                                                                                                                 |                                                    |
| 51 | L?DL_DatInCpDataAck START T_dly(60000)                                                 | DatInCpDataAck(CpDataAckPdu_01(TI_08(TCV_ti_v_2)))                                                              | CP-ACK ms->n                                       |
| 52 | ?TIMEOUT T_dly                                                                         |                                                                                                                 | (F)                                                |
| 53 | +ChanRel(TCV_ch)                                                                       |                                                                                                                 |                                                    |
| 54 | L?DL_DatInCpData CANCEL T_dly                                                          | DatInCpData(TCV_ch Sms, CpDataPdu_02(TI_08(TCV_ti_v_2), CpData_02(TCV_Rpmr)))                                   | CP-DATA(RP-Ack) ms->n                              |
| 55 | L!DL_DatRqCpDataAck                                                                    | DatRqCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)                                                   | CP-ACK n->ms                                       |
| 56 | +ChanRel(TCV_ch)                                                                       |                                                                                                                 |                                                    |
| 57 | (TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey))                                  |                                                                                                                 |                                                    |
| 58 | L?DL_DatInCpData CANCEL T_dly                                                          | DatInCpData(TCV_ch Sms, CpDataPdu_02(TI_08(TCV_ti_v_2), CpData_08(TCV_Rpmr)))                                   | CP-DATA(RP-Error: Memory Capacity Exceeded)        |
| 59 | L!DL_DatRqCpDataAck                                                                    | DatRqCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)                                                   | CP-ACK n->ms                                       |
| 60 | (TCV_MemCapExcd := TRUE)                                                               |                                                                                                                 | SMS storage in ME + SIM full                       |
| 61 | +ChanRel(TCV_ch)                                                                       |                                                                                                                 |                                                    |
| 62 | (TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey), TCV_Res := OO_CheckMCEFOOnSIM()) |                                                                                                                 |                                                    |
| 63 | [NOT TCV_Res]                                                                          |                                                                                                                 | (F)                                                |
| 64 | [TCV_Res]                                                                              |                                                                                                                 | (P)                                                |
|    | <b>ltree_sms3</b>                                                                      |                                                                                                                 |                                                    |
| 65 | +ltree_Environment                                                                     |                                                                                                                 |                                                    |
| 66 | L!DL_DatRqCpData START T_dly(25000)                                                    | DatRqCpData(CpDataPdu_01(TI_07(TCV_ti_v_2), CpData_01(TCV_TP OA1, TCV_RPOA_MT, TCV_Rpmr, C_Tzone2)), TCV_chSms) | CP-DATA(RP-Data SMS DELIVER)<br>TP-DCS is 0        |
| 67 | ?TIMEOUT T_dly                                                                         |                                                                                                                 | (F)                                                |
| 68 | +ChanRel(TCV_ch)                                                                       |                                                                                                                 |                                                    |
| 69 | L?DL_DatInCpDataAck START T_dly(60000)                                                 | DatInCpDataAck(CpDataAckPdu_01(TI_08(TCV_ti_v_2)))                                                              | CP-ACK ms->n                                       |
| 70 | ?TIMEOUT T_dly                                                                         |                                                                                                                 | (F)                                                |
| 71 | +ChanRel(TCV_ch)                                                                       |                                                                                                                 |                                                    |
| 72 | L?DL_DatInCpData CANCEL T_dly                                                          | DatInCpData(TCV_ch Sms, CpDataPdu_02(TI_08(TCV_ti_v_2), CpData_08(TCV_Rpmr)))                                   | CP-DATA(RP-Error: Memory Capacity Exceeded)        |

|    |                                                                                            |                                                                            |     |                                          |
|----|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----|------------------------------------------|
| 73 | L!DL_DatRqCpDataAck                                                                        | DatRqCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)              |     | CP-ACK n->ms                             |
| 74 | +ChanRel(TCV_ch)                                                                           |                                                                            |     |                                          |
| 75 | (TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey), TCV_Null := OO_RemoveOneSM())        |                                                                            |     |                                          |
|    | <b>Itree_sms4</b>                                                                          |                                                                            |     |                                          |
| 76 | +Itree_Environment2                                                                        |                                                                            |     |                                          |
| 77 | L?DL_DatInCpData(TCV_ti_v := DL_DatInCpData.msg.ti.v)                                      | DatInCpData(TCV_chSms, CpDataPdu_02(TI_09, CpData_09))                     |     | CP-DATA(RP-SMMA), ms->n                  |
| 78 | L!DL_DatRqCpDataAck                                                                        | DatRqCpDataAck(CpDataAckPdu_01(TI_08(TCV_ti_v)), TCV_chSms)                |     | CP-ACK n->ms                             |
| 79 | L!DL_DatRqCpData START T_dly(25000)                                                        | DatRqCpData(CpDataPdu_02(TI_08(TCV_ti_v), CpData_04(TCV_RpMr)), TCV_chSms) |     | CP-DATA(RP-Ack) n->ms                    |
| 80 | ?TIMEOUT T_dly                                                                             |                                                                            | (F) |                                          |
| 81 | +ChanRel(TCV_ch)                                                                           |                                                                            |     |                                          |
| 82 | L?DL_DatInCpDataAck CANCEL T_dly                                                           | DatInCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v)))                           |     | CP-ACK ms->n                             |
| 83 | +ChanRel(TCV_ch)                                                                           |                                                                            |     |                                          |
| 84 | (TCV_Null := OM_CphMd(TCV_ch, CphMod_02, TCV_CphKey), TCV_Res := OO_CheckMCEFOnSIMUnset()) |                                                                            |     |                                          |
| 85 | [NOT TCV_Res]                                                                              |                                                                            | (F) |                                          |
| 86 | [TCV_Res]                                                                                  |                                                                            | (P) |                                          |
| 87 | (TCV_Null := OO_RemoveOneSM())                                                             |                                                                            |     |                                          |
| 88 | START T_dly(60000)                                                                         |                                                                            |     |                                          |
| 89 | L?DL_RaInChRq( TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn) CANCEL T_dly  | ChReq(ChRequest_04)                                                        | (F) | The MS shall not attempt to send RP-SSMA |
| 90 | +ChanRel(TCV_ch)                                                                           |                                                                            |     |                                          |
| 91 | ?TIMEOUT T_dly                                                                             |                                                                            | (P) |                                          |
|    | <b>Itree_set_sapi3_SDCCH_MT</b>                                                            |                                                                            |     |                                          |
| 92 | L!DL_EstRq                                                                                 | DLEstRq(TCV_ch)                                                            |     |                                          |
| 93 | L?DL_EstCo                                                                                 | DLEstCo(TCV_ch)                                                            |     |                                          |
|    | <b>Itree_set_sapi3_SDCCH_MO</b>                                                            |                                                                            |     |                                          |
| 94 | L?DL_EstIn                                                                                 | DLEstIn(TCV_ch)                                                            |     |                                          |

**Detailed Comments:**

- 1: Part a) of the test procedure as described in GSM 11.10, 34.2.3.3
- 2: Parts b) to c) of the test procedure as described in GSM 11.10, 34.2.3.3
- 3: Parts d) to e) of the test procedure as described in GSM 11.10, 34.2.3.3
- 4: Parts f) to k) of the test procedure as described in GSM 11.10, 34.2.3.3

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                           |   |                                            |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---|--------------------------------------------|
| <b>Test Case Name:</b>      |       | TC_34_2_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                           |   |                                            |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/SM/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                           |   |                                            |
| <b>Purpose:</b>             |       | 1) To verify that the MS is able to accept a SMS-STATUS-REPORT TPDU.<br><br>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.                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                           |   |                                            |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                           |   |                                            |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | CRef                                                                                      | V | Comments                                   |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                           |   |                                            |
| 2                           |       | (TCV_RPOA_MT:='1111111111'O,<br>TCV_TPDA:='5555555555'O)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                           |   |                                            |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_02,<br>CellChDes_03, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_01, BcchFreqLst_Omit,<br>BcchFreqLst_48, BcchFreqLst_Omit,<br>C_noReestablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA,<br>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                                          |
|                             |       | <b>ltree_part1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                           |   |                                            |
| 8                           |       | (TCV_Null := OO_SendMOShortMessage())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                           |   |                                            |
| 9                           |       | +ltree_PrepareEnvironmentParts1_3_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                           |   |                                            |
| 10                          |       | +ltree_sms1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                           |   | Initiate MO-SM, status<br>report requested |
| 11                          |       | +ltree_sms2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                           |   | Terminate MO-SM                            |
|                             |       | <b>ltree_part2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                           |   |                                            |
| 12                          |       | +ltree_PrepareEnvironmentPart2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                           |   |                                            |
| 13                          |       | +ltree_sms3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                           |   | MT-SM (SMS Status<br>Report)               |
|                             |       | <b>ltree_part3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                           |   |                                            |
| 14                          |       | (TCV_Null := OO_SendSMSCOMMANDEng())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                           |   |                                            |
| 15                          |       | +ltree_PrepareEnvironmentParts1_3_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                           |   |                                            |
| 16                          |       | +ltree_sms4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                           |   | Initiate MO-SM (SMS<br>COMMAND, enquiry)   |
| 17                          |       | +ltree_sms2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                           |   | Terminate MO-SM                            |
|                             |       | <b>ltree_part4</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                           |   |                                            |
| 18                          |       | (TCV_Null := OO_SendSMSCOMMANDDel())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                           |   |                                            |
| 19                          |       | +ltree_PrepareEnvironmentParts1_3_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                           |   |                                            |
| 20                          |       | +ltree_sms5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                           |   | Initiate MO-SM (SMS<br>COMMAND, deletion)  |
| 21                          |       | +ltree_sms2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                           |   | Terminate MO-SM                            |
|                             |       | <b>ltree_PrepareEnvironmentParts1_3_4</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                           |   |                                            |
| 22                          |       | (TCV_chSms:=TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                           |   |                                            |
| 23                          |       | L?DL_RaChRq (TCV_Rr := DL_RaChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ChReq(ChRequest_0<br>4)                                                                   |   |                                            |
| 24                          |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                           |   | To match ChReq retrans.                    |
| 25                          |       | LIDL_UdatRqImmass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot, |   |                                            |

|    |                                                                                                                                                                                         |                                                                                                                                                    |                                |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 26 | L?DL_EstInCmsRq                                                                                                                                                                         | TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(0))<br>CMSerReq(CMServic<br>eReq_09)                                                                   |                                |
| 27 | ACTIVATE(OtherEventsFail)                                                                                                                                                               |                                                                                                                                                    | Restore normal default<br>tree |
| 28 | +Authentication(TCV_ch, TCV_cksn,<br>TSPX_RANDDef)                                                                                                                                      |                                                                                                                                                    |                                |
| 29 | +Cipherring_on(TCV_ch)                                                                                                                                                                  |                                                                                                                                                    |                                |
| 30 | +ltree_set_sapi3_SDCCH_MO                                                                                                                                                               |                                                                                                                                                    |                                |
|    | <b>ltree_PrepareEnvironmentPart2</b>                                                                                                                                                    |                                                                                                                                                    |                                |
| 31 | +RRmtcallprepare(TimingAdv(0))                                                                                                                                                          |                                                                                                                                                    |                                |
| 32 | +ltree_set_sapi3_SDCCH_MT                                                                                                                                                               |                                                                                                                                                    |                                |
| 33 | (TCV_ti_v_2 := '000'B, TCV_chSms := TCV_ch)                                                                                                                                             |                                                                                                                                                    |                                |
|    | <b>ltree_sms1</b>                                                                                                                                                                       |                                                                                                                                                    |                                |
| 34 | L?DL_DatInCpData(TCV_Rpmr :=<br>DL_DatInCpData.msg.CPdata.rpdata.rpmr,<br>TCV_Tpmr :=<br>DL_DatInCpData.msg.CPdata.rpdata.rpusdat.tpsub<br>mit.mr, TCV_ti_v := DL_DatInCpData.msg.ti.v) | DatInCpData(TCV_ch<br>Sms,<br>CpDataPdu_03(CpDa<br>ta_03(RpData_08)))                                                                              | RP-Data                        |
|    | <b>ltree_sms2</b>                                                                                                                                                                       |                                                                                                                                                    |                                |
| 35 | L!DL_DatRqCpDataAck                                                                                                                                                                     | DatRqCpDataAck(Cp<br>DataAckPdu_01(TI_0<br>8(TCV_ti_v)),<br>TCV_chSms)                                                                             |                                |
| 36 | L!DL_DatRqCpData                                                                                                                                                                        | DatRqCpData(CpDat<br>aPdu_02(TI_08(TCV_<br>ti_v),<br>CpData_04(TCV_Rp<br>mr)), TCV_chSms)                                                          | RP-Ack                         |
| 37 | START T_dly(25000)                                                                                                                                                                      |                                                                                                                                                    |                                |
| 38 | ?TIMEOUT T_dly                                                                                                                                                                          |                                                                                                                                                    | (F)                            |
| 39 | +ChanRel(TCV_ch)                                                                                                                                                                        |                                                                                                                                                    |                                |
| 40 | L?DL_DatInCpDataAck CANCEL T_dly                                                                                                                                                        | DatInCpDataAck(CpD<br>ataAckPdu_02(TI_07(<br>TCV_ti_v)))                                                                                           |                                |
| 41 | +ChanRel_P(TCV_ch)                                                                                                                                                                      |                                                                                                                                                    |                                |
| 42 | (TCV_Null := OM_CphMd(TCV_ch,<br>CphMod_02, TCV_CphKey))                                                                                                                                |                                                                                                                                                    |                                |
|    | <b>ltree_sms3</b>                                                                                                                                                                       |                                                                                                                                                    |                                |
| 43 | +ltree_PrepareEnvironmentPart2                                                                                                                                                          |                                                                                                                                                    |                                |
| 44 | L!DL_DatRqCpData                                                                                                                                                                        | DatRqCpData(CpDat<br>aPdu_01(TI_07(TCV_<br>ti_v_2),<br>CpData_12(TCV_TP<br>DA, TCV_RPOA_MT,<br>TCV_Tpmr,<br>TCV_Rpmr,<br>C_Tzone3)),<br>TCV_chSms) | RP-Data<br>status report       |
| 45 | START T_dly(25000)                                                                                                                                                                      |                                                                                                                                                    |                                |
| 46 | ?TIMEOUT T_dly                                                                                                                                                                          |                                                                                                                                                    | (F)                            |
| 47 | +ChanRel(TCV_ch)                                                                                                                                                                        |                                                                                                                                                    |                                |
| 48 | L?DL_DatInCpDataAck CANCEL T_dly                                                                                                                                                        | DatInCpDataAck(CpD<br>ataAckPdu_01(TI_08(<br>TCV_ti_v_2)))                                                                                         |                                |
| 49 | START T_dly(60000)                                                                                                                                                                      |                                                                                                                                                    |                                |
| 50 | ?TIMEOUT T_dly                                                                                                                                                                          |                                                                                                                                                    | (F)                            |
| 51 | +ChanRel(TCV_ch)                                                                                                                                                                        |                                                                                                                                                    |                                |
| 52 | L?DL_DatInCpData CANCEL T_dly                                                                                                                                                           | DatInCpData(TCV_ch<br>Sms,<br>CpDataPdu_02(TI_08<br>(TCV_ti_v_2),<br>CpData_02(TCV_Rp<br>mr)))                                                     | RP-Ack                         |
| 53 | L!DL_DatRqCpDataAck                                                                                                                                                                     | DatRqCpDataAck(Cp                                                                                                                                  |                                |

|                           |  |                                                                                                                                                                                                              |                                                                                                                     |                                   |
|---------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| 54                        |  |                                                                                                                                                                                                              | DataAckPdu_02(TI_0<br>7(TCV_ti_v_2)),<br>TCV_chSms)                                                                 |                                   |
| 55                        |  | +ChanRel(TCV_ch)<br>(TCV_Null := OM_CphMd(TCV_ch,<br>CphMod_02, TCV_CphKey))                                                                                                                                 |                                                                                                                     |                                   |
| 56                        |  | <b>Itree_sms4</b><br>L?DL_DatInCpData(TCV_Rpmr :=<br>DL_DatInCpData.msg.CPdata.rpdata.rpmr,<br>TCV_Tpmr :=<br>DL_DatInCpData.msg.CPdata.rpdata.rpusrdat.tpcom<br>mand.mr, TCV_ti_v:=DL_DatInCpData.msg.ti.v) | DatInCpData(TCV_ch<br>Sms,<br>CpDataPdu_03(CpDa<br>ta_03(RpData_11(TC<br>V_Rpmr,<br>TpCommand_01(TCV<br>_Tpmr)))))) | RP-Data, SMS<br>COMMAND, enquiry  |
| 57                        |  | <b>Itree_sms5</b><br>L?DL_DatInCpData(TCV_Rpmr :=<br>DL_DatInCpData.msg.CPdata.rpdata.rpmr, TCV_ti_v<br>:= DL_DatInCpData.msg.ti.v)                                                                          | DatInCpData(TCV_ch<br>Sms,<br>CpDataPdu_03(CpDa<br>ta_03(RpData_11(TC<br>V_Rpmr,<br>TpCommand_02(TCV<br>_Tpmr)))))) | RP-Data, SMS<br>COMMAND, deletion |
| 58                        |  | <b>Itree_set_sapi3_SDCCH_MO</b><br>L?DL_EstIn                                                                                                                                                                | DLEstIn(TCV_ch)                                                                                                     |                                   |
| 59                        |  | <b>Itree_set_sapi3_SDCCH_MT</b><br>L!DL_EstRq                                                                                                                                                                | DLEstRq(TCV_ch)                                                                                                     |                                   |
| 60                        |  | L?DL_EstCo                                                                                                                                                                                                   | DLEstCo(TCV_ch)                                                                                                     |                                   |
| <b>Detailed Comments:</b> |  |                                                                                                                                                                                                              |                                                                                                                     |                                   |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                               |     |                                   |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------|
| <b>Test Case Name:</b>      |       | TC_34_2_5_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                               |     |                                   |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                               |     |                                   |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | CRef                                                                                                                          | V   | Comments                          |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                               |     |                                   |
| 2                           |       | (TCV_Null:=OO_EmptyMessageStorage(),<br>TCV_RPOA_MT:='1111111111'O,<br>TCV_TPOA1:='3333333333'O, TCV_Rpmr:='00'O)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                               |     |                                   |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_02,<br>CellChDes_03, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_01, BcchFreqLst_Omit,<br>BcchFreqLst_48, BcchFreqLst_Omit,<br>C_noRestablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                                                                                                               |     |                                   |
| 4                           | body  | +ltree_sms1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                               | 1   |                                   |
| 5                           |       | (TCV_Res := OO_RecallAndDisplaySM(160,<br>TCV_SMcntns))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                               |     |                                   |
| 6                           |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                               | (F) | Message store should be empty     |
| 7                           |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                               | (P) |                                   |
| 8                           |       | +ltree_Release                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                               |     |                                   |
| 9                           |       | (TCV_MemCapExcd := FALSE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                               |     |                                   |
| 10                          |       | REPEAT ltree_sms2<br>UNTIL [TCV_MemCapExcd]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                               |     |                                   |
| 11                          |       | +ltree_Release                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                               |     |                                   |
| 12                          |       | +ltree_sms1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                               | 3   |                                   |
| 13                          |       | +ChanRel_end(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                               |     |                                   |
|                             |       | <b>ltree_Release</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                               |     |                                   |
| 14                          |       | +ChanRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                               |     |                                   |
| 15                          |       | (TCV_Null := OM_CphMd(TCV_ch, CphMod_02,<br>TCV_CphKey))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                               |     |                                   |
|                             |       | <b>ltree_Environment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                               |     |                                   |
| 16                          |       | +RRmtcallprepare(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                               |     |                                   |
| 17                          |       | +ltree_set_sapi3_SDCCH_MT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                               |     |                                   |
| 18                          |       | (TCV_ti_v_2 := '000'B, TCV_chSms := TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                               |     |                                   |
|                             |       | <b>ltree_sms1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                               |     |                                   |
| 19                          |       | +ltree_Environment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                               |     |                                   |
| 20                          |       | L!DL_DatRqCpData (TCV_SMcntns :=<br>DL_DatRqCpData.msg.CPdata.rpdata.rpusdat.tpde<br>liver.ud) START T_dly(25000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DatRqCpData(CpDataPdu_01(TI_07(TCV_ti_v_2),<br>CpData_10(TCV_TPOA1,<br>TCV_RPOA_MT,<br>TCV_Rpmr,<br>C_Tzone4)),<br>TCV_chSms) |     | RP-Data<br>Initiate class 0 MT-SM |
| 21                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                               | (F) |                                   |
| 22                          |       | L?DL_DatInCpDataAck START T_dly(60000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | DatInCpDataAck(CpDataAckPdu_01(TI_08(TCV_ti_v_2)))                                                                            |     |                                   |
| 23                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                               | (F) |                                   |
| 24                          |       | L?DL_DatInCpData CANCEL T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | DatInCpData(TCV_chSms,<br>CpDataPdu_02(TI_08(TCV_ti_v_2),                                                                     |     | RP-Ack                            |

|                           |                                                              |                                                                                                                                            |                                   |
|---------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| 25                        | L!DL_DatRqCpDataAck                                          | CpData_02(TCV_Rp<br>mr))                                                                                                                   |                                   |
| 26                        | (TCV_Res :=<br>OO_CheckMessageDisplayed(160,<br>TCV_SMcnts)) | DatRqCpDataAck(Cp<br>DataAckPdu_02(TI_0<br>7(TCV_ti_v_2)),<br>TCV_chSms)                                                                   |                                   |
| 27                        | [NOT TCV_Res]                                                |                                                                                                                                            | (F)                               |
| 28                        | [TCV_Res]                                                    |                                                                                                                                            | (P)                               |
| 29                        | <b>ltree_sms2</b><br>+ltree_Environment                      |                                                                                                                                            |                                   |
| 30                        | L!DL_DatRqCpData START T_dly(25000)                          | DatRqCpData(CpDat<br>aPdu_01(TI_07(TCV_<br>ti_v_2)),<br>CpData_06(TCV_RP<br>OA_MT,<br>TCV_TPOA1,<br>TCV_Rpmr,<br>C_Tzone4)),<br>TCV_chSms) | RP-Data<br>Initiate class 1 MT-SM |
| 31                        | ?TIMEOUT T_dly                                               |                                                                                                                                            | (F)                               |
| 32                        | L?DL_DatInCpDataAck START T_dly(60000)                       | DatInCpDataAck(CpD<br>ataAckPdu_01(TI_08(<br>TCV_ti_v_2)))                                                                                 |                                   |
| 33                        | ?TIMEOUT T_dly                                               |                                                                                                                                            | (F)                               |
| 34                        | L?DL_DatInCpData CANCEL T_dly                                | DatInCpData(TCV_ch<br>Sms,<br>CpDataPdu_02(TI_08<br>(TCV_ti_v_2)),<br>CpData_02(TCV_Rp<br>mr))                                             | RP-Ack                            |
| 35                        | L!DL_DatRqCpDataAck                                          | DatRqCpDataAck(Cp<br>DataAckPdu_02(TI_0<br>7(TCV_ti_v_2)),<br>TCV_chSms)                                                                   |                                   |
| 36                        | L?DL_DatInCpData CANCEL T_dly                                | DatInCpData(TCV_ch<br>Sms,<br>CpDataPdu_02(TI_08<br>(TCV_ti_v_2)),<br>CpData_08(TCV_Rp<br>mr))                                             | RP-Error:<br>Memory Capacity Exc. |
| 37                        | L!DL_DatRqCpDataAck                                          | DatRqCpDataAck(Cp<br>DataAckPdu_02(TI_0<br>7(TCV_ti_v_2)),<br>TCV_chSms)                                                                   |                                   |
| 38                        | (TCV_MemCapExcd := TRUE)                                     |                                                                                                                                            |                                   |
| 39                        | <b>ltree_set_sapi3_SDCCH_MT</b><br>L!DL_EstRq                | DLEstRq(TCV_ch)                                                                                                                            |                                   |
| 40                        | L?DL_EstCo                                                   | DLEstCo(TCV_ch)                                                                                                                            |                                   |
| <b>Detailed Comments:</b> |                                                              |                                                                                                                                            |                                   |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                               |     |                                   |
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| <b>Test Case Name:</b>      |       | TC_34_2_5_2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                               |     |                                   |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/SM/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                               |     |                                   |
| <b>Purpose:</b>             |       | 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).                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                               |     |                                   |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                               |     |                                   |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CRef                                                                                                                          | V   | Comments                          |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                               |     |                                   |
| 2                           |       | (TCV_Null:=OO_EmptyMessageStorage(),<br>TCV_Null:=OO_MSSetupStoreClass1SMInMEMemory(), TCV_RPOA_MT:='1111111111'O,<br>TCV_TPOA1:= '3333333333'O, TCV_Rpmr:='00'O)                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                               |     |                                   |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_02,<br>CellChDes_03, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_01, BcchFreqLst_Omit,<br>BcchFreqLst_48, BcchFreqLst_Omit,<br>C_noReestablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                                                                                                               |     |                                   |
| 4                           | body  | +ltree_Environment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                               | 1   |                                   |
| 5                           |       | +ltree_sms1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                               |     |                                   |
|                             |       | <b>ltree_Environment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                               |     |                                   |
| 6                           |       | +RRmtcallprepare(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                               |     |                                   |
| 7                           |       | +ltree_set_sapi3_SDCCH_MT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                               |     |                                   |
| 8                           |       | (TCV_ti_v_2:=000'B, TCV_chSms:=TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                               |     |                                   |
|                             |       | <b>ltree_sms1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                               |     |                                   |
| 9                           |       | L!DL_DatRqCpData (TCV_SMcntns :=<br>DL_DatRqCpData.msg.CPdata.rpdata.rpusrdat.tpdeliver.ud)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | DatRqCpData(CpDataPdu_01(TI_07(TCV_ti_v_2),<br>CpData_06(TCV_RPOA_MT,<br>TCV_TPOA1,<br>TCV_Rpmr,<br>C_Tzone5)),<br>TCV_chSms) |     | RP-Data<br>Initiate class 1 MT-SM |
| 10                          |       | START T_dly(25000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                               |     |                                   |
| 11                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                               | (F) |                                   |
| 12                          |       | +ChanRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                               |     |                                   |
| 13                          |       | L?DL_DatInCpDataAck CANCEL T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | DatInCpDataAck(CpDataAckPdu_01(TI_08(TCV_ti_v_2)))                                                                            | (P) |                                   |
| 14                          |       | START T_dly(60000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                               |     |                                   |
| 15                          |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                               | (F) |                                   |
| 16                          |       | +ChanRel(TCV_chTch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                               |     |                                   |
| 17                          |       | L?DL_DatInCpData CANCEL T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | DatInCpData(TCV_chSms,<br>CpDataPdu_02(TI_08(TCV_ti_v_2),<br>CpData_02(TCV_Rpmr)))                                            | (P) | RP-Ack                            |
| 18                          |       | L!DL_DatRqCpDataAck                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DatRqCpDataAck(CpDataAckPdu_02(TI_07(TCV_ti_v_2)),<br>TCV_chSms)                                                              |     |                                   |
| 19                          |       | +ChanRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                               |     |                                   |
| 20                          |       | (TCV_Res :=<br>OO_RecallAndDisplaySM(160,<br>TCV_SMcntns))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                               |     |                                   |
| 21                          |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                               | (F) |                                   |
| 22                          |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                               | (P) |                                   |



|                           |  |                                 |                                    |  |  |
|---------------------------|--|---------------------------------|------------------------------------|--|--|
| 23                        |  | <b>ltree_set_sapi3_SDCCH_MT</b> |                                    |  |  |
| 24                        |  | L!DL_EstRq<br>L?DL_EstCo        | DLEstRq(TCV_ch)<br>DLEstCo(TCV_ch) |  |  |
| <b>Detailed Comments:</b> |  |                                 |                                    |  |  |

### Test Case Dynamic Behaviour

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b> | TC_34_2_5_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Group:</b>          | GSM_L3_MS_v4180/SM/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Purpose:</b>        | 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". |
| <b>Default:</b>        | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| Nr | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CRef                                                                                                                                      | V   | Comments                                                |
|----|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----|---------------------------------------------------------|
| 1  |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                           |     |                                                         |
| 2  |       | (TCV_Null := OO_EmptyMessageStorage(),<br>TCV_Null :=<br>OO_MSSetupStoreClass1SMInMEMemory(),<br>TCV_Null := OO_ConnectSIMSimulator(),<br>TCV_RPOA_MT := '1111111111'O, TCV_TPOA1:=<br>'3333333333'O, TCV_Rpmr:= '00'O)                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                           |     |                                                         |
| 3  |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immss, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_02,<br>CellChDes_03, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID,<br>BcchFreqLst_01, BcchFreqLst_Omit,<br>BcchFreqLst_48, BcchFreqLst_Omit,<br>C_noRestablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA,<br>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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                           |     |                                                         |
|    |       | <b>ltree_Release</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                           |     |                                                         |
| 10 |       | +ChanRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                           |     |                                                         |
| 11 |       | (TCV_Null := OM_CphMd(TCV_ch, CphMod_02,<br>TCV_CphKey))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                           |     |                                                         |
|    |       | <b>ltree_Environment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                           |     |                                                         |
| 12 |       | +RRmtcallprepare(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                           |     |                                                         |
| 13 |       | +ltree_set_sapi3_SDCCH_MT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                           |     |                                                         |
| 14 |       | (TCV_ti_v_2:= '000'B, TCV_chSms:=TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                           |     |                                                         |
|    |       | <b>ltree_sms1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                           |     |                                                         |
| 15 |       | +ltree_Environment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                           |     |                                                         |
| 16 |       | L!DL_DatRqCpData START T_dly(25000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | DatRqCpData(CpDat<br>aPdu_01(TI_07(TCV_<br>ti_v_2),<br>CpData_05(TCV_TP<br>OA1,<br>TCV_RPOA_MT,<br>TCV_Rpmr,<br>C_Tzone0)),<br>TCV_chSms) |     | CP-DATA(RP-Data SMS<br>DELIVER), n->ms<br>class 2 MT-SM |
| 17 |       | ?TIMEOUT T_dly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                           | (F) |                                                         |
| 18 |       | L?DL_DatInCpDataAck START T_dly(60000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | DatInCpDataAck(CpD<br>ataAckPdu_01(TI_08(<br>TCV_ti_v_2)))                                                                                |     | CP-ACK ms->n                                            |
|    |       | <b>ltree_sms2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                           |     |                                                         |
| 19 |       | (TCV_Res := OO_SIMSimulAttIndOK())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                           |     | ME attempt to store SM<br>on SIM? Status OK             |

|                           |                                                                 |                                                                                 |     |                                                                 |
|---------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------|-----|-----------------------------------------------------------------|
| 20                        | [NOT TCV_Res]                                                   |                                                                                 | (F) | ('9000')                                                        |
| 21                        | [TCV_Res]                                                       |                                                                                 |     |                                                                 |
| 22                        | ?TIMEOUT T_dly                                                  |                                                                                 | (F) |                                                                 |
| 23                        | L?DL_DatInCpData CANCEL T_dly                                   | DatInCpData(TCV_ch Sms, CpDataPdu_02(TI_08 (TCV_ti_v_2), CpData_02(TCV_Rp mr))) |     | CP-DATA(RP-Ack) ms->n                                           |
| 24                        | L!DL_DatRqCpDataAck                                             | DatRqCpDataAck(Cp DataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)                  |     | CP-ACK n->ms                                                    |
| 25                        | <b>Itree_sms3</b><br>(TCV_Res := OO_SIMSimulAttIndMemProblem()) |                                                                                 |     | ME attempt to store SM on SIM? Status 'memory problem' ('9240') |
| 26                        | [NOT TCV_Res]                                                   |                                                                                 | (F) |                                                                 |
| 27                        | [TCV_Res]                                                       |                                                                                 |     |                                                                 |
| 28                        | [TSPC_StoreRcvSMSME]                                            |                                                                                 |     |                                                                 |
| 29                        | ?TIMEOUT T_dly                                                  |                                                                                 | (F) |                                                                 |
| 30                        | L?DL_DatInCpData CANCEL T_dly                                   | DatInCpData(TCV_ch Sms, CpDataPdu_02(TI_08 (TCV_ti_v_2), CpData_07(TCV_Rp mr))) |     | CP-DATA(RP-Error: Protocol Error, unspecified)                  |
| 31                        | L!DL_DatRqCpDataAck                                             | DatRqCpDataAck(Cp DataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)                  |     | CP-ACK n->ms                                                    |
| 32                        | [NOT TSPC_StoreRcvSMSME]                                        |                                                                                 |     |                                                                 |
| 33                        | ?TIMEOUT T_dly                                                  |                                                                                 | (F) |                                                                 |
| 34                        | L?DL_DatInCpData CANCEL T_dly                                   | DatInCpData(TCV_ch Sms, CpDataPdu_02(TI_08 (TCV_ti_v_2), CpData_08(TCV_Rp mr))) |     | CP-DATA(RP-Error: Memory capacity exceeded)                     |
| 35                        | L!DL_DatRqCpDataAck                                             | DatRqCpDataAck(Cp DataAckPdu_02(TI_07(TCV_ti_v_2)), TCV_chSms)                  |     | CP-ACK n->ms                                                    |
| 36                        | <b>Itree_set_sapi3_SDCCH_MT</b><br>L!DL_EstRq                   | DLEstRq(TCV_ch)                                                                 |     |                                                                 |
| 37                        | L?DL_EstCo                                                      | DLEstCo(TCV_ch)                                                                 |     |                                                                 |
| <b>Detailed Comments:</b> |                                                                 |                                                                                 |     |                                                                 |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                              |     |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----|----------|
| <b>Test Case Name:</b>      |       | TC_34_2_7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/SM/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                              |     |          |
| <b>Purpose:</b>             |       | To verify the correct implementation of the replace mechanism for Replace Short Messages.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                              |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CRef                                                                         | V   | Comments |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                              |     |          |
| 2                           |       | (TCV_Null:=OO_EmptyMessageStorage(),<br>TCV_TPOA1:='1111111111'O,<br>TCV_TPOA2:='2222222222'O,<br>TCV_RPOA1:='3333333333'O,<br>TCV_RPOA2:='4444444444'O, TCV_Rpmr:='00'O)                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |     |          |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immss, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_02,<br>CellChDes_03, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_01, BcchFreqLst_Omit,<br>BcchFreqLst_48, BcchFreqLst_Omit,<br>C_noReestablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDf, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                                                              |     |          |
| 4                           |       | REPEAT Itree_RandomTypes<br>UNTIL [NOT(TCV_SMTypeM =<br>TCV_SMTypeN)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                              |     |          |
| 5                           | body  | +Itree_part1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                              |     |          |
| 6                           |       | +ChanRel_end(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                              |     |          |
| 7                           |       | <b>Itree_RandomTypes</b><br>(TCV_SMTypeM:=OC_Random(1, 7),<br>TCV_SMTypeN:=OC_Random(1, 7))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                              |     |          |
| 8                           |       | <b>Itree_part1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                              |     |          |
| 9                           |       | +Itree_sms1("First short message. ")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                              |     |          |
| 10                          |       | +Itree_Release                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                              |     |          |
| 11                          |       | +Itree_sms1("Second short message. ")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                              |     |          |
| 12                          |       | +Itree_Release                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                              |     |          |
| 13                          |       | +Itree_sms1("Third short message. ")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                              |     |          |
| 14                          |       | +Itree_Release                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                              |     |          |
| 15                          |       | +Itree_sms1("Fourth short message. ")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                              |     |          |
| 16                          |       | +Itree_Release                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                              |     |          |
| 17                          |       | +Itree_sms1("Fifth short message. ")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                              |     |          |
| 18                          |       | (TCV_Res :=<br>OO_CheckAllSMPresentBut4th())                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                              | (F) |          |
| 19                          |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                              | (P) |          |
| 20                          |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |     |          |
| 20                          |       | <b>Itree_Release</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                              |     |          |
| 21                          |       | +ChanRel(TCV_ch)<br>(TCV_Null := OM_CphMd(TCV_ch, CphMod_02,<br>TCV_CphKey))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                              |     |          |
| 22                          |       | <b>Itree_Environment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                              |     |          |
| 23                          |       | +RRmtcallprepare(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                              |     |          |
| 24                          |       | +Itree_set_sapi3_SDCCH_MT<br>(TCV_ti_v_2:='000'B, TCV_chSms:=TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                              |     |          |
| 25                          |       | <b>Itree_sms1(text: IA5String)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                              |     |          |
| 26                          |       | +Itree_Environment<br>L!DL_DatRqCpData START T_dly(25000)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | DatRqCpData(CpDat<br>aPdu_16(TCV_TPOA<br>1, TCV_RPOA1,<br>TCV_SMTypeN, text, |     | RP-Data  |

|                           |                                        |                                                                                                |     |        |
|---------------------------|----------------------------------------|------------------------------------------------------------------------------------------------|-----|--------|
| 27                        | ?TIMEOUT T_dly                         | TI_07(TCV_ti_v_2),<br>TCV_Rpmr,<br>C_Tzone1),<br>TCV_chSms)                                    | (F) |        |
| 28                        | L?DL_DatInCpDataAck START T_dly(60000) | DatInCpDataAck(CpD<br>ataAckPdu_01(TI_08(<br>TCV_ti_v_2)))                                     |     |        |
| 29                        | ?TIMEOUT T_dly                         |                                                                                                | (F) |        |
| 30                        | L?DL_DatInCpData CANCEL T_dly          | DatInCpData(TCV_ch<br>Sms,<br>CpDataPdu_02(TI_08<br>(TCV_ti_v_2),<br>CpData_02(TCV_Rp<br>mr))) |     | RP-Ack |
| 31                        | L!DL_DatRqCpDataAck                    | DatRqCpDataAck(Cp<br>DataAckPdu_02(TI_0<br>7(TCV_ti_v_2)),<br>TCV_chSms)                       |     |        |
|                           | <b>ltree_set_sapi3_SDCCH_MT</b>        |                                                                                                |     |        |
| 32                        | L!DL_EstRq                             | DLEstRq(TCV_ch)                                                                                |     |        |
| 33                        | L?DL_EstCo                             | DLEstCo(TCV_ch)                                                                                |     |        |
| <b>Detailed Comments:</b> |                                        |                                                                                                |     |        |

| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                               |   |                                                                                                                                        |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Case Name:</b>      |       | TC_34_2_8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                               |   |                                                                                                                                        |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                               |   |                                                                                                                                        |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CRef                                                                                                                                          | V | Comments                                                                                                                               |
| 1                           |       | START T_guard(300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                               |   |                                                                                                                                        |
| 2                           |       | (TCV_Null := OO_EmptyMessageStorage(),<br>TCV_RPOA1 := '1111111111'O, TCV_RPOA2 :=<br>'2222222222'O, TCV_RPDA_MT := '3333333333'O,<br>TCV_TPOA1 := '4444444444'O, TCV_TPOA2 :=<br>'5555555555'O, TCV_RPOA_MO :=<br>TCV_RPDA_MT, TCV_RPDA_MO := TCV_RPOA1,<br>TCV_TPDA := TCV_TPOA1, TCV_Rpmr := '00'O)                                                                                                                                                                                                                                                                                                           |                                                                                                                                               |   | n->ms, 1st SM<br>n->ms, 2nd SM<br>n->ms, both<br>n->ms, 1st SM<br>n->ms, 2nd SM<br>ms->n, both<br>ms->n, 1st reply<br>ms->n, 1st reply |
| 3                           |       | +IdleUpdated(C_E_default, C_CellA, C_SCH_A,<br>C_BCCH_A_1, C_Immass, C_S0, C_SlotNU,<br>C_SlotNU, C_SlotNU, C_BCC, C_TxInt_5,<br>C_Max_1, C_NECI_0, C_ATT_0, TimingAdv(0),<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_0, C_ci_cellA, C_MCC_1, C_PLMN_1,<br>C_LAC_1, CellOpt_01, CellChDes_02,<br>CellChDes_03, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_01, BcchFreqLst_Omit,<br>BcchFreqLst_48, BcchFreqLst_Omit,<br>C_noRestablishment, C_BCC, C_NCC,<br>C_Start_Tmsi, TSPX_SDCCH4SubDef,<br>TSPX_CKSNDDef, TSPX_RANDDef, C_arfcnA,<br>C_arfcnAd, TSPX_IMSI, C_Test_fh, C_NCCP_2) |                                                                                                                                               |   |                                                                                                                                        |
| 4                           | body  | +ltree_part1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                               |   |                                                                                                                                        |
| 5                           |       | +ltree_part2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                               |   |                                                                                                                                        |
| 6                           |       | +ChanRel_end(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                               |   |                                                                                                                                        |
|                             |       | <b>ltree_Release</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                               |   |                                                                                                                                        |
| 7                           |       | +ChanRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                               |   |                                                                                                                                        |
| 8                           |       | (TCV_Null := OM_CphMd(TCV_ch, CphMod_02,<br>TCV_CphKey))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                               |   |                                                                                                                                        |
|                             |       | <b>ltree_Environment1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                               |   |                                                                                                                                        |
| 9                           |       | +RRmtcallprepare(TimingAdv(0))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                               |   |                                                                                                                                        |
| 10                          |       | +ltree_set_sapi3_SDCCH_MT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                               |   |                                                                                                                                        |
| 11                          |       | (TCV_ti_v_2 := '000'B, TCV_chSms := TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                               |   |                                                                                                                                        |
|                             |       | <b>ltree_Environment2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                               |   |                                                                                                                                        |
| 12                          |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ChReq(ChRequest_1<br>5)                                                                                                                       |   |                                                                                                                                        |
| 13                          |       | ACTIVATE(OtherEventsFail_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                               |   | To match ChReq retrans.                                                                                                                |
| 14                          |       | LIDL_UdatRqImm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(0))) |   |                                                                                                                                        |
| 15                          |       | L?DL_EstInCmsRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CMSerReq(CMServic<br>eReq_09)                                                                                                                 |   |                                                                                                                                        |
| 16                          |       | ACTIVATE(OtherEventsFail)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                               |   | Restore normal default<br>tree                                                                                                         |
| 17                          |       | +Authentication(TCV_ch, TCV_cks, n,<br>TSPX_RANDDef)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                               |   |                                                                                                                                        |
| 18                          |       | +Cipherring_on(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                               |   |                                                                                                                                        |
| 19                          |       | +ltree_set_sapi3_SDCCH_MO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                               |   |                                                                                                                                        |
|                             |       | <b>ltree_part1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                               |   |                                                                                                                                        |
| 20                          |       | +ltree_sms1(TCV_TPOA1, TCV_RPOA1, "The first<br>short message. ")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                               |   |                                                                                                                                        |

|    |                                                                                                                    |                                                                                                                      |                                     |
|----|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| 21 | (TCV_CB1 := TCV_SMcntns)                                                                                           |                                                                                                                      |                                     |
| 22 | +ltree_Release                                                                                                     |                                                                                                                      |                                     |
| 23 | [TSPC_StoreRcvSMSME OR<br>TSPC_StoreRcvSMSSIM]                                                                     |                                                                                                                      | SM can be stored                    |
| 24 | +ltree_sms1(TCV_TPOA2, TCV_RPOA2,<br>"The second short message. ")                                                 |                                                                                                                      |                                     |
| 25 | (TCV_CB2 := TCV_SMcntns)                                                                                           |                                                                                                                      |                                     |
| 26 | +ltree_Release                                                                                                     |                                                                                                                      |                                     |
| 27 | [NOT(TSPC_StoreRcvSMSME) AND<br>NOT(TSPC_StoreRcvSMSSIM)]                                                          |                                                                                                                      | SM cannot be stored                 |
|    | <b>ltree_part2</b>                                                                                                 |                                                                                                                      |                                     |
| 28 | (TCV_CB3 := OO_DisplaySMAndSendReplySM(1,<br>160, TCV_CB1))                                                        |                                                                                                                      | TCV_CB3 holds the 1st<br>reply data |
| 29 | +ltree_sms2(TCV_CB3)                                                                                               |                                                                                                                      | Reply SM                            |
| 30 | +ltree_Release                                                                                                     |                                                                                                                      |                                     |
| 31 | [TSPC_StoreRcvSMSME OR<br>TSPC_StoreRcvSMSSIM]                                                                     |                                                                                                                      | SM can be stored                    |
| 32 | (TCV_RPDA_MO := TCV_RPOA2,<br>TCV_TPDA := TCV_TPOA2, TCV_CB4 :=<br>OO_DisplaySMAndSendReplySM(2, 160,<br>TCV_CB2)) |                                                                                                                      |                                     |
| 33 | +ltree_sms2(TCV_CB4)                                                                                               |                                                                                                                      | Reply SM                            |
| 34 | [NOT(TSPC_StoreRcvSMSME) AND<br>NOT(TSPC_StoreRcvSMSSIM)]                                                          |                                                                                                                      | SM cannot be stored                 |
|    | <b>ltree_sms1(tpoa1: BCDN; rpoa_mt: BCDN; text:<br/>IA5String)</b>                                                 |                                                                                                                      |                                     |
| 35 | +ltree_Environment1                                                                                                |                                                                                                                      |                                     |
| 36 | LIDL_DatRqCpData (TCV_SMcntns :=<br>DL_DatRqCpData.msg.CPdata.rpdata.rpusdat.tpde<br>liver.ud) START T_dly(25000)  | DatRqCpData(CpDat<br>aPdu_17(tpoa1,<br>rpoa_mt, text,<br>TI_07(TCV_ti_v_2),<br>TCV_Rpmr,<br>C_Tzone6),<br>TCV_chSms) | RP-Data                             |
| 37 | ?TIMEOUT T_dly                                                                                                     |                                                                                                                      | (F)                                 |
| 38 | L?DL_DatInCpDataAck START T_dly(60000)                                                                             | DatInCpDataAck(CpD<br>ataAckPdu_01(TI_08(<br>TCV_ti_v_2)))                                                           | (P)                                 |
| 39 | ?TIMEOUT T_dly                                                                                                     |                                                                                                                      | (F)                                 |
| 40 | L?DL_DatInCpData CANCEL T_dly                                                                                      | DatInCpData(TCV_ch<br>Sms,<br>CpDataPdu_02(TI_08<br>(TCV_ti_v_2),<br>CpData_02(TCV_Rp<br>mr)))                       | (P) RP-Ack                          |
| 41 | LIDL_DatRqCpDataAck                                                                                                | DatRqCpDataAck(Cp<br>DataAckPdu_02(TI_0<br>7(TCV_ti_v_2)),<br>TCV_chSms)                                             |                                     |
|    | <b>ltree_sms2(tpud:TPUD)</b>                                                                                       |                                                                                                                      |                                     |
| 42 | +ltree_Environment2                                                                                                |                                                                                                                      |                                     |
| 43 | L?DL_DatInCpData(TCV_Rpmr :=<br>DL_DatInCpData.msg.CPdata.rpdata.rpmr,<br>TCV_ti_v := DL_DatInCpData.msg.ti.v)     | DatInCpData(TCV_ch<br>Sms,<br>CpDataPdu_18(TCV_<br>TPDA,TCV_RPDA_M<br>T, tpud))                                      | RP-Data, TP-submit                  |
| 44 | LIDL_DatRqCpDataAck                                                                                                | DatRqCpDataAck(Cp<br>DataAckPdu_01(TI_0<br>8(TCV_ti_v)),<br>TCV_chSms)                                               |                                     |
| 45 | LIDL_DatRqCpData START T_dly(25000)                                                                                | DatRqCpData(CpDat<br>aPdu_02(TI_08(TCV_<br>ti_v),<br>CpData_04(TCV_Rp<br>mr)), TCV_chSms)                            | RP-Ack                              |
| 46 | ?TIMEOUT T_dly                                                                                                     |                                                                                                                      | (F)                                 |
| 47 | L?DL_DatInCpDataAck CANCEL T_dly                                                                                   | DatInCpDataAck(CpD<br>ataAckPdu_02(TI_07(                                                                            | (P)                                 |

|                           |  |                                 |                  |  |  |
|---------------------------|--|---------------------------------|------------------|--|--|
|                           |  |                                 | TCV_ti_v)))      |  |  |
| 48                        |  | <b>Itree_set_sapi3_SDCCH_MT</b> |                  |  |  |
| 49                        |  | L!DL_EstRq                      | DLEstRq(TCV_ch)  |  |  |
|                           |  | L?DL_EstCo                      | DLEstCo(TCV_ch)  |  |  |
|                           |  | <b>Itree_set_sapi3_SDCCH_MO</b> |                  |  |  |
| 50                        |  | L?DL_EstIn                      | DLEstInd(TCV_ch) |  |  |
| <b>Detailed Comments:</b> |  |                                 |                  |  |  |



| Test Case Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |     |                                          |
|-----------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------------------------------------------|
| <b>Test Case Name:</b>      |       | TC_34_3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |     |                                          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/SM/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |     |                                          |
| <b>Purpose:</b>             |       | This test verifies that an MS is able to receive SMS-CB messages.<br>This test verifies that a MS is able to respond to a paging requested during the transmission of a cell broadcast short message.                                                                                                                                                                                                                                                                                                                                                                   |      |     |                                          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |     |                                          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CRef | V   | 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_Reestablishment, C_BCC, C_NCC, C_Start_Tmsi, TSPX_SDCCCH4SubDef, TSPX_CKSNDef, TSPX_RANDDef, C_arfcnA, C_arfcnAd, TSPX_IMSI, C_Test_cbms, C_NCCP_2) |      |     |                                          |
| 4                           | body  | +ltree_body                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |     |                                          |
|                             |       | <b>ltree_body</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |     |                                          |
| 5                           |       | +SendSMSCBMessage(SerialNumber_01)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |     | Send cell broadcast message              |
| 6                           |       | (TCV_Res := OO_CheckCBSMReceived(93, TCV_SMSCBpack))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |     |                                          |
| 7                           |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      | (F) |                                          |
| 8                           |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | (P) |                                          |
| 9                           |       | +SendSMSCBMessage(SerialNumber_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |     | Send cell broadcast message              |
| 10                          |       | (TCV_Res := OO_CheckCBSMReceived(93,TCV_SMSCBpack))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |     |                                          |
| 11                          |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      | (F) |                                          |
| 12                          |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | (P) |                                          |
| 13                          |       | +SendSMSCBMessage(SerialNumber_03)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |     | Send cell broadcast message              |
| 14                          |       | (TCV_Res := OO_CheckCBSMReceived(93, TCV_SMSCBpack))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |     |                                          |
| 15                          |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      | (F) |                                          |
| 16                          |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | (P) |                                          |
| 17                          |       | +ltree_body2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |     |                                          |
|                             |       | <b>ltree_body2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |     |                                          |
| 18                          |       | +SendSMSCBMessage(SerialNumber_01)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |     | Send cell broadcast message              |
| 19                          |       | (TCV_Res := OO_CheckCBSMReceived(93, TCV_SMSCBpack))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |     |                                          |
| 20                          |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      | (F) |                                          |
| 21                          |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | (P) |                                          |
| 22                          |       | (TCV_Null := OM_SendSMSCBWhilePaging(TCV_CBch))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |     | Send cell broadcast message while paging |
| 23                          |       | +SendSMSCBMessage(SerialNumber_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |     | Send cell broadcast message              |
| 24                          |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |     |                                          |
| 25                          |       | (TCV_Res := OO_CheckCBSMReceived(93, TCV_SMSCBpack))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |     |                                          |
| 26                          |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |     |                                          |
| 27                          |       | +localtree2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |     |                                          |
| 28                          |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | (P) |                                          |

|                           |                                                                                                    |                                                                                                                                               |                                                   |
|---------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| 29                        | +localtree2                                                                                        |                                                                                                                                               |                                                   |
|                           | <b>localtree2</b>                                                                                  |                                                                                                                                               |                                                   |
| 30                        | +SendSMSCBMessage(SerialNumber_03)                                                                 |                                                                                                                                               | Send cell broadcast message                       |
| 31                        | (TCV_Res := OO_CheckCBSMReceived(93,<br>TCV_SMSCBpack))                                            |                                                                                                                                               |                                                   |
| 32                        | [NOT TCV_Res]                                                                                      | (F)                                                                                                                                           |                                                   |
| 33                        | [TCV_Res]                                                                                          | (P)                                                                                                                                           |                                                   |
|                           | <b>localtree</b>                                                                                   |                                                                                                                                               |                                                   |
| 34                        | L!DL_UdatRqPg1Rq                                                                                   | PgReq1(TCV_PgCh,<br>TCV_Pgg,<br>PgReqTp1_01)                                                                                                  |                                                   |
| 35                        | START T_dly(5000)                                                                                  |                                                                                                                                               |                                                   |
| 36                        | ?TIMEOUT T_dly                                                                                     |                                                                                                                                               | (F)                                               |
| 37                        | L?DL_RacInChRq( TCV_Rr :=<br>DL_RacInChRq.msg.ecau_rrf, TCV_Fn :=<br>DL_RacInChRq.fn) CANCEL T_dly | ChReq(ChRequest_1<br>7)                                                                                                                       |                                                   |
| 38                        | L!DL_UdatRqImmss                                                                                   | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(0))) |                                                   |
| 39                        | L?DL_EstInPgRes                                                                                    | PagingRes(PagingRe<br>s_01)                                                                                                                   |                                                   |
| 40                        | +ChanRel(TCV_ch)                                                                                   |                                                                                                                                               |                                                   |
|                           | <b>SendSMSCBMessage(serial_number:SERIAL_NUM<br/>MBER)</b>                                         |                                                                                                                                               |                                                   |
| 41                        | L!DL_UdatRqSMSCBData(TCV_CB1 :=<br>DL_UdatRqSMSCBData.msg.message_contents)                        | SMSCBReq(TCV_CB<br>ch,<br>SMSCB_01(serial_nu<br>mber))                                                                                        | First block                                       |
| 42                        | L!DL_UdatRqSMSCBData(TCV_CB2 :=<br>DL_UdatRqSMSCBData.msg.message_contents)                        | SMSCBReq(TCV_CB<br>ch, SMSCB_02(<br>'0001'B, '0'B, 17, 38))                                                                                   | Second block, message<br>octets 17 to 38          |
| 43                        | L!DL_UdatRqSMSCBData(TCV_CB3 :=<br>DL_UdatRqSMSCBData.msg.message_contents)                        | SMSCBReq(TCV_CB<br>ch, SMSCB_02(<br>'0010'B, '0'B, 39, 60))                                                                                   | Third block, message<br>octets 39 to 60           |
| 44                        | L!DL_UdatRqSMSCBData(TCV_CB4 :=<br>DL_UdatRqSMSCBData.msg.message_content<br>s)                    | SMSCBReq(TCV_CB<br>ch, SMSCB_02(<br>'0011'B, '1'B, 61, 82))                                                                                   | Fourth and last block,<br>message octets 61 to 82 |
| 45                        | (TCV_SMSCBpack :=<br>SMSCBdata(TCV_CB1, TCV_CB2,<br>TCV_CB3, TCV_CB4))                             |                                                                                                                                               | 4 blocks data                                     |
| <b>Detailed Comments:</b> |                                                                                                    |                                                                                                                                               |                                                   |

## Test Step Library

## Test Step Group management

| Test Step Dynamic Behaviour |       |                                                                                                                              |      |   |          |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | StopAllBCCH                                                                                                                  |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/                                                                                                  |      |   |          |
| <b>Objective:</b>           |       | To stop the RF transmission of all BCCH channels in all active cells.                                                        |      |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                              |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                        | CRef | V | 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>                                                                                                                                                             |       | Stopmaindch(ch_main:LOGICCH; ch_sacch:LOGICCH)                                         |                       |     |          |
| <b>Group:</b>                                                                                                                                                                      |       | GSM_L3_MS_v4180/management/                                                            |                       |     |          |
| <b>Objective:</b>                                                                                                                                                                  |       | To stop the transmission of main dch channel and wait till no more uplink SACCH frame. |                       |     |          |
| <b>Default:</b>                                                                                                                                                                    |       | OtherEventsFail_01                                                                     |                       |     |          |
| <b>Comments:</b>                                                                                                                                                                   |       | 'ch_main' identifying a main dch channel and 'ch_sacch' a sacch channel.               |                       |     |          |
| Nr                                                                                                                                                                                 | Label | Behaviour Description                                                                  | CRef                  | V   | Comments |
| 1                                                                                                                                                                                  |       | (TCV_Null := OM_Deactivate(ch_main, ch_sacch))                                         |                       |     |          |
| 2                                                                                                                                                                                  |       | (TCV_Null := OM_StartMsrReport(ch_sacch))                                              |                       |     | 1.       |
| 3                                                                                                                                                                                  |       | START T_dly1(C_T_mrsrp)                                                                |                       |     |          |
| 4                                                                                                                                                                                  |       | (TCV_Res := FALSE)                                                                     |                       |     |          |
| 5                                                                                                                                                                                  |       | REPEAT ltree_rcvmsr UNTIL [TCV_Res]                                                    |                       |     |          |
| 6                                                                                                                                                                                  |       | (TCV_Null := OM_StopMsrReport(ch_sacch))                                               |                       |     |          |
| 6                                                                                                                                                                                  |       | <b>ltree_rcvmsr</b>                                                                    |                       |     | 2.       |
| 7                                                                                                                                                                                  |       | L?DL_UdatInMsrRpt                                                                      | MsrRept(MsrReport_02) |     |          |
| 7                                                                                                                                                                                  |       | START T_dly1(C_T_mrsrp)                                                                |                       |     |          |
| 8                                                                                                                                                                                  |       | ?TIMEOUT T_dly1                                                                        |                       | (P) |          |
| 9                                                                                                                                                                                  |       | (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 Group ChConfig

| 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> GSM_L3_MS_v4180/management/ChConfig/                                                                                                                     |       |                                                                                                            |      |   |          |
| <b>Objective:</b> Configure Tester for TCH/H or TCH/F depending on TCV_ChRate.                                                                                         |       |                                                                                                            |      |   |          |
| <b>Default:</b> OtherEvents                                                                                                                                            |       |                                                                                                            |      |   |          |
| Nr                                                                                                                                                                     | Label | Behaviour Description                                                                                      | CRef | V | 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                                                                                                                                              |       |                                                                                                                |      |   |          |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------------|------|---|----------|--|
| <b>Test Step Name:</b> 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) |       |                                                                                                                |      |   |          |  |
| <b>Group:</b> GSM_L3_MS_v4180/management/ChConfig/                                                                                                                       |       |                                                                                                                |      |   |          |  |
| <b>Objective:</b> Configure Tester for TCH/H or TCH/F depending on TCV_ChRate.                                                                                           |       |                                                                                                                |      |   |          |  |
| <b>Default:</b> OtherEvents                                                                                                                                              |       |                                                                                                                |      |   |          |  |
| Nr                                                                                                                                                                       | Label | Behaviour Description                                                                                          | CRef | V | 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)      |      |   | 2.       |  |
| 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]                                                                                          |      |   |          |  |
| 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)                     |      |   |          |  |
| <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_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>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                                                               |      |   |          |
| <b>Objective:</b>           |       | Configure Tester for TCH/H or TCH/F depending on TCV_ChRate.                                                                                                                       |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                        |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                              | CRef | V | 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.<br>2. Half rate channel needed, to setup the physical channel as half rate traffic channel. |      |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                            |      |   |          |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | Config_CBMS_A_1(par_bspwr, par_mspwr:INTEGER; chmod:CHMOD; acttype:BITSTRING; slot:SN; tsc:TSC; rf:FRQPARA; chcmbn:LOGCH; ta:TA; babr, cch_con, bpm:B_3)                                                                                                   |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                                                                                                                                       |      |   |          |
| <b>Objective:</b>           |       | To set a physical channel and map FCCH, SCH, BCCH, CCCH, SDCCH4 and CBCH onto the physical channel which represents cell A.                                                                                                                                |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                                                |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                      | CRef | V | Comments |
| 1                           |       | (TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellA, C_FCCH_A, C_SCH_A, C_BCCH_A_1, C_PCH_A_1, C_AGCH_A_1, C_RACH_A_1, C_SDCCH4_A, C_SACCHC4_A, C_CBCH_A)) |      |   |          |
| 2                           |       | (TCV_Null := OM_Assoc(C_SDCCH4_A, C_SDCCH40_A, C_SDCCH41_A, C_SDCCH42_A, C_SDCCH43_A, "dummy", "dummy", "dummy", "dummy", C_SACCHC4_A, C_SACCHC40_A, C_SACCHC41_A, C_SACCHC42_A, C_SACCHC43_A, "dummy", "dummy", "dummy", "dummy"))                        |      |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                            |      |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                |      |   |          |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | 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)                                                                                     |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                                                                                                                           |      |   |          |
| <b>Objective:</b>           |       | To set one physical channel used as TCHF_ACCH's of cell A.                                                                                                                                                                                     |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                                    |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                          | CRef | V | Comments |
| 1                           |       | (TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0B, '0B, C_CellA, "dummy", "dummy", "dummy", "dummy", "dummy", "dummy", C_FACCHF_A_1, C_SACCHF_A_1, "dummy")) |      |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                |      |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                |      |   |          |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | 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)                                                                                     |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                                                                                                                           |      |   |          |
| <b>Objective:</b>           |       | To set one physical channel used as TCHF_ACCH's for instance 2 of cell A.                                                                                                                                                                      |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                                    |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                          | CRef | V | Comments |
| 1                           |       | (TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0B, '0B, C_CellA, "dummy", "dummy", "dummy", "dummy", "dummy", "dummy", C_FACCHF_A_2, C_SACCHF_A_2, "dummy")) |      |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                |      |   |          |

| 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>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                                                                                                                           |      |   |          |
| <b>Objective:</b>           |       | To set one physical channel used as TCHF_ACCH's of cell B.                                                                                                                                                                                     |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                                    |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                          | CRef | V | Comments |
| 1                           |       | (TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0B, '0B, 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 |       |                                                                                                                                                                                                                                                |      |   |          |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | 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)                                                                                     |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                                                                                                                           |      |   |          |
| <b>Objective:</b>           |       | To set one physical channel used as TCHF_ACCH's of cell H.                                                                                                                                                                                     |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                                    |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                          | CRef | V | Comments |
| 1                           |       | (TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0B, '0B, C_CellH, "dummy", "dummy", "dummy", "dummy", "dummy", "dummy", C_FACCHF_H_1, C_SACCHF_H_1, "dummy")) |      |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                |      |   |          |

| 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>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                                                                                                                             |      |   |          |
| <b>Objective:</b>           |       | To set one physical channel used as TCHH_ACCH's of cell A.                                                                                                                                                                                       |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                                      |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                            | CRef | V | 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", "dummy"))              |      |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                  |      |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                  |      |   |          |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | 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)                                                                                       |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                                                                                                                             |      |   |          |
| <b>Objective:</b>           |       | To set one physical channel used as TCHH_ACCH's of cell A.                                                                                                                                                                                       |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                                      |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                            | CRef | V | 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", "dummy"))              |      |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                  |      |   |          |

| 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>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                                                                                                                             |      |   |          |
| <b>Objective:</b>           |       | To set one physical channel used as TCHH_ACCH's of cell B.                                                                                                                                                                                       |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                                      |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                            | CRef | V | 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", "dummy"))              |      |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                  |      |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                    |      |   |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | 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)                                                                                      |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                                                                                                                               |      |   |          |
| <b>Objective:</b>           |       | To set a physical channel and map FCCH, SCH, BCCH and CCCH onto the physical channel which represents cell A.                                                                                                                                      |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                                        |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                              | CRef | V | 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")) |      |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                    |      |   |          |

| 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>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                                                                                                                              |      |   |          |
| <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                                                                                                                                                                                                                                       |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                             | CRef | V | 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 |       |                                                                                                                                                                                                                                                   |      |   |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | 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)                                                                                     |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                                                                                                                              |      |   |          |
| <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                                                                                                                                                                                                                                       |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                             | CRef | V | 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")) |      |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                   |      |   |          |



| 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>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                                                                                                                              |      |   |          |
| <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                                                                                                                                                                                                                                       |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                             | CRef | V | 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 |       |                                                                                                                                                                                                                                                    |      |   |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | 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)                                                                                      |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                                                                                                                               |      |   |          |
| <b>Objective:</b>           |       | To set a physical channel and map FCCH, SCH, BCCH and CCCH onto the physical channel which represents cell B.                                                                                                                                      |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                                        |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                              | CRef | V | 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")) |      |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                    |      |   |          |

| 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>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                                                                                                                                 |      |   |          |
| <b>Objective:</b>           |       | To set a physical channel and map FCCH, SCH, BCCH and CCCH onto the physical channel which represents cell B with controllable td and fn.                                                                                                            |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                                          |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                | CRef | V | 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 |       |                                                                                                                                                                                                                                                         |      |   |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | Config_SDCCH4_A_1(par_bspwr, par_mspwr:INTEGER; chmod:CHMOD; acttype:BITSTRING; slot:SN; tsc:TSC; rf:FRQPARA; chcmbn:LOGCH; ta:TA; babr, cch_con, bpm:B_3)                                                                                              |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                                                                                                                                    |      |   |          |
| <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                                                                                                                                                                                                                                             |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                   | CRef | V | Comments |
| 1                           |       | (TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0B, '0B, 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"))                     |      |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                         |      |   |          |

| 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; chcmbn:LOGCH; ta:TA; babr, cch_con, bpm:B_3)                                                                                              |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                                                                                                                                    |      |   |          |
| <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                                                                                                                                                                                                                                             |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                   | CRef | V | Comments |
| 1                           |       | (TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0B, '0B, 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 |       |                                                                                                                                                                                                                                                            |      |   |          |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | Config_SDCCH4_B_ho_1(par_bspwr, par_mspwr:INTEGER; chmod:CHMOD; actype:BITSTRING; slot:SN; tsc:TSC; rf:FRQPARA; chcmbn:LOGCH; ta:TA; babr, cch_con, bpm:B_3; td, fn:INTEGER)                                                                               |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                                                                                                                                       |      |   |          |
| <b>Objective:</b>           |       | 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.                                                                                                          |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                                                |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                      | CRef | V | Comments |
| 1                           |       | (TCV_Null := OM_ChConf(par_bspwr, par_mspwr, actype, chmod, ta, slot, tsc, rf, chcmbn, td, fn, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellB, C_FCCH_B, C_SCH_B, C_BCCH_B_1, C_PCH_B_1, C_AGCH_B_1, C_RACH_B_1, C_SDCCH4_B, C_SACCHC4_B, "dummy")) |      |   |          |
| 2                           |       | (TCV_Null := OM_Assoc(C_SDCCH4_B, C_SDCCH40_B, C_SDCCH41_B, C_SDCCH42_B, C_SDCCH43_B, "dummy", "dummy", "dummy", "dummy", C_SACCHC4_B, C_SACCHC40_B, C_SACCHC41_B, C_SACCHC42_B, C_SACCHC43_B, "dummy", "dummy", "dummy", "dummy"))                        |      |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                            |      |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                          |      |   |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | Config_SDCCH4_C_1(par_bspwr, par_mspwr:INTEGER; chmod:CHMOD; actype:BITSTRING; slot:SN; tsc:TSC; rf:FRQPARA; chcmbn:LOGCH; ta:TA; babr, cch_con, bpm:B_3)                                                                                                |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                                                                                                                                     |      |   |          |
| <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                                                                                                                                                                                                                                              |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                    | CRef | V | Comments |
| 1                           |       | (TCV_Null := OM_ChConf(par_bspwr, par_mspwr, actype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellC, C_FCCH_C, C_SCH_C, C_BCCH_C_1, C_PCH_C_1, C_AGCH_C_1, C_RACH_C_1, C_SDCCH4_C, C_SACCHC4_C, "dummy")) |      |   |          |
| 2                           |       | (TCV_Null := OM_Assoc(C_SDCCH4_C, C_SDCCH40_C, C_SDCCH41_C, C_SDCCH42_C, C_SDCCH43_C, "dummy", "dummy", "dummy", "dummy", C_SACCHC4_C, C_SACCHC40_C, C_SACCHC41_C, C_SACCHC42_C, C_SACCHC43_C, "dummy", "dummy", "dummy", "dummy"))                      |      |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                          |      |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                           |      |   |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | Config_SDCCH4_D_1(par_bspwr, par_mspwr:INTEGER; chmod:CHMOD; acttype:BITSTRING; slot:SN; tsc:TSC; rf:FRQPARA; chcmbn:LOGCH; ta:TA; babr, cch_con, bpm:B_3)                                                                                                |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                                                                                                                                      |      |   |          |
| <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                                                                                                                                                                                                                                               |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                     | CRef | V | Comments |
| 1                           |       | (TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0B', '0B', C_CellD, C_FCCH_D, C_SCH_D, C_BCCH_D_1, C_PCH_D_1, C_AGCH_D_1, C_RACH_D_1, C_SDCCH4_D, C_SACCHC4_D, "dummy")) |      |   |          |
| 2                           |       | (TCV_Null := OM_Assoc(C_SDCCH4_D, C_SDCCH40_D, C_SDCCH41_D, C_SDCCH42_D, C_SDCCH43_D, "dummy", "dummy", "dummy", "dummy", C_SACCHC4_D, C_SACCHC40_D, C_SACCHC41_D, C_SACCHC42_D, C_SACCHC43_D, "dummy", "dummy", "dummy", "dummy"))                       |      |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                           |      |   |          |

| 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; chcmbn:LOGCH; ta:TA; babr, cch_con, bpm:B_3)                                                                                                |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                                                                                                                                      |      |   |          |
| <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                                                                                                                                                                                                                                               |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                     | CRef | V | Comments |
| 1                           |       | (TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0B', '0B', 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 |       |                                                                                                                                                                                                                                                           |      |   |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | Config_SDCCH4_F_1(par_bspwr, par_mspwr:INTEGER; chmod:CHMOD; acttype:BITSTRING; slot:SN; tsc:TSC; rf:FRQPARA; chcmbn:LOGCH; ta:TA; babr, cch_con, bpm:B_3)                                                                                                |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                                                                                                                                      |      |   |          |
| <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                                                                                                                                                                                                                                               |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                     | CRef | V | Comments |
| 1                           |       | (TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellF, C_FCCH_F, C_SCH_F, C_BCCH_F_1, C_PCH_F_1, C_AGCH_F_1, C_RACH_F_1, C_SDCCH4_F, C_SACCHC4_F, "dummy")) |      |   |          |
| 2                           |       | (TCV_Null := OM_Assoc(C_SDCCH4_F, C_SDCCH40_F, C_SDCCH41_F, C_SDCCH42_F, C_SDCCH43_F, "dummy", "dummy", "dummy", "dummy", C_SACCHC4_F, C_SACCHC40_F, C_SACCHC41_F, C_SACCHC42_F, C_SACCHC43_F, "dummy", "dummy", "dummy", "dummy"))                       |      |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                           |      |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                           |      |   |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | Config_SDCCH4_G_1(par_bspwr, par_mspwr:INTEGER; chmod:CHMOD; acttype:BITSTRING; slot:SN; tsc:TSC; rf:FRQPARA; chcmbn:LOGCH; ta:TA; babr, cch_con, bpm:B_3)                                                                                                |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                                                                                                                                      |      |   |          |
| <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                                                                                                                                                                                                                                               |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                     | CRef | V | Comments |
| 1                           |       | (TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellG, C_FCCH_G, C_SCH_G, C_BCCH_G_1, C_PCH_G_1, C_AGCH_G_1, C_RACH_G_1, C_SDCCH4_G, C_SACCHC4_G, "dummy")) |      |   |          |
| 2                           |       | (TCV_Null := OM_Assoc(C_SDCCH4_G, C_SDCCH40_G, C_SDCCH41_G, C_SDCCH42_G, C_SDCCH43_G, "dummy", "dummy", "dummy", "dummy", C_SACCHC4_G, C_SACCHC40_G, C_SACCHC41_G, C_SACCHC42_G, C_SACCHC43_G, "dummy", "dummy", "dummy", "dummy"))                       |      |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                           |      |   |          |

| Test Step Dynamic Behaviour                                                                                                                                                       |       |                                                                                                                                                                                                                                                           |      |   |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b> Config_SDCCH4_H_1(par_bspwr, par_mspwr:INTEGER; chmod:CHMOD; acttype:BITSTRING; slot:SN; tsc:TSC; rf:FRQPARA; chcmbn:LOGCH; ta:TA; babr, cch_con, bpm:B_3) |       |                                                                                                                                                                                                                                                           |      |   |          |
| <b>Group:</b> GSM_L3_MS_v4180/management/ChConfig/                                                                                                                                |       |                                                                                                                                                                                                                                                           |      |   |          |
| <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                                                                                                                                                       |       |                                                                                                                                                                                                                                                           |      |   |          |
| Nr                                                                                                                                                                                | Label | Behaviour Description                                                                                                                                                                                                                                     | CRef | V | Comments |
| 1                                                                                                                                                                                 |       | (TCV_Null := OM_ChConf(par_bspwr, par_mspwr, acttype, chmod, ta, slot, tsc, rf, chcmbn, 0, 0, babr, cch_con, bpm, PgReqTp1Norm, '0'B, '0'B, C_CellH, C_FCCH_H, C_SCH_H, C_BCCH_H_1, C_PCH_H_1, C_AGCH_H_1, C_RACH_H_1, C_SDCCH4_H, C_SACCHC4_H, "dummy")) |      |   |          |
| 2                                                                                                                                                                                 |       | (TCV_Null := OM_Assoc(C_SDCCH4_H, C_SDCCH40_H, C_SDCCH41_H, C_SDCCH42_H, C_SDCCH43_H, "dummy", "dummy", "dummy", "dummy", C_SACCHC4_H, C_SACCHC40_H, C_SACCHC41_H, C_SACCHC42_H, C_SACCHC43_H, "dummy", "dummy", "dummy", "dummy"))                       |      |   |          |
| <b>Detailed Comments:</b>                                                                                                                                                         |       |                                                                                                                                                                                                                                                           |      |   |          |

| 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> GSM_L3_MS_v4180/management/ChConfig/                                                                                                                                |       |                                                                                                                                                                                                                                                                                                             |      |   |          |
| <b>Objective:</b> To set one physical channel used as SDCCH8 channel for instance 1 of cell A.                                                                                    |       |                                                                                                                                                                                                                                                                                                             |      |   |          |
| <b>Default:</b> OtherEvents                                                                                                                                                       |       |                                                                                                                                                                                                                                                                                                             |      |   |          |
| Nr                                                                                                                                                                                | Label | Behaviour Description                                                                                                                                                                                                                                                                                       | CRef | V | 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 |       |                                                                                                                                                                                                                                                                                                             |      |   |          |
|-----------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | 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)                                                                                                                                                  |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                                                                                                                                                                                        |      |   |          |
| <b>Objective:</b>           |       | To set one physical channel used as SDCCH8 channel for instance 2 of cell A.                                                                                                                                                                                                                                |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                                                                                                 |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                       | CRef | V | 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)) |      |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                                                                             |      |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                             |      |   |          |
|-----------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | 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)                                                                                                                                                  |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                                                                                                                                                                                        |      |   |          |
| <b>Objective:</b>           |       | To set one physical channel used as SDCCH8 channel for instance 1 of cell B.                                                                                                                                                                                                                                |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                                                                                                 |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                       | CRef | V | 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_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)) |      |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                                                                             |      |   |          |

| 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>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                                     |      |   |          |
| <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                                                                                                                                    | CRef | V | Comments |
| 1                           |       | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                                 |      |   | 1.       |
| 2                           |       | +Config_CBMS_A_1(par_bspwr, mtmcgsm, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_CBCH_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4, ta, babr, cch_con, bpm) |      |   |          |
| 3                           |       | [TSPC_DCS]                                                                                                                                               |      |   | 2.       |
| 4                           |       | +Config_CBMS_A_1(par_bspwr, mtmcdds, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_CBCH_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4, ta, babr, cch_con, bpm) |      |   |          |
| <b>Detailed Comments:</b>   |       | 1. For P-GSM900.<br>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>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                                  |      |   |          |
| <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                                                                                                                                           |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                 | CRef | V | Comments |
| 1                           |       | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                              |      |   | 1.       |
| 2                           |       | +Config_SDCCH4_A_1(par_bspwr, mtmcgsm, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4, ta, babr, cch_con, bpm) |      |   |          |
| 3                           |       | [TSPC_DCS]                                                                                                                                            |      |   | 2.       |
| 4                           |       | +Config_SDCCH4_A_1(par_bspwr, mtmcdds, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4, ta, babr, cch_con, bpm) |      |   |          |
| <b>Detailed Comments:</b>   |       | 1. For P-GSM900.<br>2. For DCS1800.                                                                                                                   |      |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                       |      |   |          |
|-----------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | CombinedBCCH_B(par_bspwr, mtmcgsm, mtmcdds, arfcn1, arfcn2:INTEGER; acttype:BITSTRING; slot:SN; tsc:TSC; ta:TA; babr, cch_con, bpm:B_3)               |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                                  |      |   |          |
| <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                                                                                                                                           |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                 | CRef | V | Comments |
| 1                           |       | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                              |      |   | 1.       |
| 2                           |       | +Config_SDCCH4_B_1(par_bspwr, mtmcgsm, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4, ta, babr, cch_con, bpm) |      |   |          |
| 3                           |       | [TSPC_DCS]                                                                                                                                            |      |   | 2.       |
| 4                           |       | +Config_SDCCH4_B_1(par_bspwr, mtmcdds, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC4, ta, babr, cch_con, bpm) |      |   |          |
| <b>Detailed Comments:</b>   |       | 1. For P-GSM900.<br>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>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                                              |      |   |          |
| <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                                                                                                                                                       |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                             | CRef | V | 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_SACCHC 4, 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_SACCHC 4, ta, babr, cch_con, bpm, td, fn) |      |   |          |
| <b>Detailed Comments:</b>   |       | 1. For P-GSM900.<br>2. For DCS1800.                                                                                                                               |      |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                        |      |   |          |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | CombinedBCCH_C(par_bspwr, mtmcgsm, mtmcdcs, arfcn1, arfcn2:INTEGER; acttype:BITSTRING; slot:SN; tsc:TSC; ta:TA; babr, cch_con, bpm:B_3)                |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                                   |      |   |          |
| <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                                                                                                                                            |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                  | CRef | V | 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_SACCHC 4, ta, babr, cch_con, bpm) |      |   |          |
| 3                           |       | [TSPC_DCS]                                                                                                                                             |      |   | 2.       |
| 4                           |       | +Config_SDCCH4_C_1(par_bspwr, mtmcdcs, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC 4, ta, babr, cch_con, bpm) |      |   |          |
| <b>Detailed Comments:</b>   |       | 1. For P-GSM900.<br>2. For DCS1800.                                                                                                                    |      |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                   |      |   |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | CombinedBCCH_D(par_bspwr, arfcn1, arfcn2:INTEGER; acttype:BITSTRING; slot:SN; tsc:TSC; ta:TA; babr, cch_con, bpm:B_3)                             |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                              |      |   |          |
| <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                                                                                                                                       |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                             | CRef | V | Comments |
| 1                           |       | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                          |      |   | 1.       |
| 2                           |       | +Config_SDCCH4_D_1(par_bspwr, 19, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC 4, ta, babr, cch_con, bpm) |      |   |          |
| 3                           |       | [TSPC_DCS]                                                                                                                                        |      |   | 2.       |
| 4                           |       | +Config_SDCCH4_D_1(par_bspwr, 15, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC 4, ta, babr, cch_con, bpm) |      |   |          |
| <b>Detailed Comments:</b>   |       | 1. For P-GSM900.<br>2. For DCS1800.                                                                                                               |      |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                   |      |   |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | CombinedBCCH_E(par_bspwr, arfcn1, arfcn2:INTEGER; acttype:BITSTRING; slot:SN; tsc:TSC; ta:TA; babr, cch_con, bpm:B_3)                             |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                              |      |   |          |
| <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                                                                                                                                       |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                             | CRef | V | Comments |
| 1                           |       | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                          |      |   | 1.       |
| 2                           |       | +Config_SDCCH4_E_1(par_bspwr, 19, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC 4, ta, babr, cch_con, bpm) |      |   |          |
| 3                           |       | [TSPC_DCS]                                                                                                                                        |      |   | 2.       |
| 4                           |       | +Config_SDCCH4_E_1(par_bspwr, 15, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC 4, ta, babr, cch_con, bpm) |      |   |          |
| <b>Detailed Comments:</b>   |       | 1. For P-GSM900.<br>2. For DCS1800.                                                                                                               |      |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                   |      |   |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | CombinedBCCH_F(par_bspwr, arfcn1, arfcn2:INTEGER; acttype:BITSTRING; slot:SN; tsc:TSC; ta:TA; babr, cch_con, bpm:B_3)                             |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                              |      |   |          |
| <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                                                                                                                                       |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                             | CRef | V | Comments |
| 1                           |       | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                          |      |   | 1.       |
| 2                           |       | +Config_SDCCH4_F_1(par_bspwr, 19, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC 4, ta, babr, cch_con, bpm) |      |   |          |
| 3                           |       | [TSPC_DCS]                                                                                                                                        |      |   | 2.       |
| 4                           |       | +Config_SDCCH4_F_1(par_bspwr, 15, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC 4, ta, babr, cch_con, bpm) |      |   |          |
| <b>Detailed Comments:</b>   |       | 1. For P-GSM900.<br>2. For DCS1800.                                                                                                               |      |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                   |      |   |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | CombinedBCCH_G(par_bspwr, arfcn1, arfcn2: INTEGER; acttype:BITSTRING; slot:SN; tsc:TSC; ta:TA; babr, cch_con, bpm:B_3)                            |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                              |      |   |          |
| <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                                                                                                                                       |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                             | CRef | V | Comments |
| 1                           |       | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                          |      |   | 1.       |
| 2                           |       | +Config_SDCCH4_G_1(par_bspwr, 19, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC 4, ta, babr, cch_con, bpm) |      |   |          |
| 3                           |       | [TSPC_DCS]                                                                                                                                        |      |   | 2.       |
| 4                           |       | +Config_SDCCH4_G_1(par_bspwr, 15, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC 4, ta, babr, cch_con, bpm) |      |   |          |
| <b>Detailed Comments:</b>   |       | 1. For P-GSM900.<br>2. For DCS1800.                                                                                                               |      |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                   |      |   |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | CombinedBCCH_G_sp(par_bspwr, arfcn1, arfcn2, arfcn3:INTEGER; acttype:BITSTRING; slot:SN; tsc:TSC; ta:TA; babr, cch_con, bpm:B_3)                  |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                              |      |   |          |
| <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                                                                                                                                       |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                             | CRef | V | Comments |
| 1                           |       | [TSPC_PGSM]                                                                                                                                       |      |   | 1.       |
| 2                           |       | +Config_SDCCH4_G_1(par_bspwr, 19, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC 4, ta, babr, cch_con, bpm) |      |   |          |
| 3                           |       | [TSPC_EGSM]                                                                                                                                       |      |   | 1.       |
| 4                           |       | +Config_SDCCH4_G_1(par_bspwr, 19, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC 4, ta, babr, cch_con, bpm) |      |   |          |
| 5                           |       | [TSPC_DCS]                                                                                                                                        |      |   | 2.       |
| 6                           |       | +Config_SDCCH4_G_1(par_bspwr, 15, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn3), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC 4, ta, babr, cch_con, bpm) |      |   |          |
| <b>Detailed Comments:</b>   |       | 1. For P-GSM900.<br>2. For DCS1800.                                                                                                               |      |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                   |      |   |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | CombinedBCCH_H(par_bspwr, arfcn1, arfcn2:INTEGER; acttype:BITSTRING; slot:SN; tsc:TSC; ta:TA; babr, cch_con, bpm:B_3)                             |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                              |      |   |          |
| <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                                                                                                                                       |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                             | CRef | V | Comments |
| 1                           |       | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                          |      |   | 1.       |
| 2                           |       | +Config_SDCCH4_H_1(par_bspwr, 19, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC 4, ta, babr, cch_con, bpm) |      |   |          |
| 3                           |       | [TSPC_DCS]                                                                                                                                        |      |   | 2.       |
| 4                           |       | +Config_SDCCH4_H_1(par_bspwr, 15, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH_SDCCH4_SACCHC 4, ta, babr, cch_con, bpm) |      |   |          |
| <b>Detailed Comments:</b>   |       | 1. For P-GSM900.<br>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> GSM_L3_MS_v4180/management/ChConfig/                                                                                                                |       |                                                                                                                                           |      |   |          |
| <b>Objective:</b> To set one physical channel used as FCHH_SCH_BCCH_CCCH for cell A.                                                                              |       |                                                                                                                                           |      |   |          |
| <b>Default:</b> OtherEvents                                                                                                                                       |       |                                                                                                                                           |      |   |          |
| Nr                                                                                                                                                                | Label | Behaviour Description                                                                                                                     | CRef | V | Comments |
| 1                                                                                                                                                                 |       | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                  |      |   | 1.       |
| 2                                                                                                                                                                 |       | +Config_BCCH_CCCH_A_1(par_bspwr, mtmcgsm, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn1), C_FCCH_SCH_BCCH_CCCH, ta, babr, cch_con, bpm) |      |   |          |
| 3                                                                                                                                                                 |       | [TSPC_DCS]                                                                                                                                |      |   | 2.       |
| 4                                                                                                                                                                 |       | +Config_BCCH_CCCH_A_1(par_bspwr, mtmcdcs, ChMod_sign, acttype, slot, tsc, FreqBCCH(arfcn2), C_FCCH_SCH_BCCH_CCCH, ta, babr, cch_con, bpm) |      |   |          |
| <b>Detailed Comments:</b> 1. For P-GSM900.<br>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> GSM_L3_MS_v4180/management/ChConfig/                                                                           |       |                                                                                                                           |      |   |          |
| <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                                                                                                  |       |                                                                                                                           |      |   |          |
| Nr                                                                                                                           | Label | Behaviour Description                                                                                                     | CRef | V | 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.<br>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> GSM_L3_MS_v4180/management/ChConfig/                                                                          |       |                                                                                                                           |      |   |          |
| <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                                                                                                     | CRef | V | 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.<br>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>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                      |      |   |          |
| <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                                                                                                     | CRef | V | 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.<br>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>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                       |      |   |          |
| <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                                                                                                                                |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                      | CRef | V | Comments |
| 1                           |       | [TSPC_PGSM]                                                                                                                                |      |   | 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.<br>1.1 Frequenz and cell_id for cell B in HO cases<br>2. For DCS1800.<br>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>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                                          |      |   |          |
| <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                                                                                                                                                   |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                         | CRef | V | Comments |
| 1                           |       | [TSPC_PGSM]                                                                                                                                                   |      |   | 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.<br>1.1 Frequenz and cell_id for cell B in HO cases<br>2. For DCS1800.<br>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>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                             |      |   |             |
| <b>Objective:</b>           |       | To set one physical channel used as TCHF_ACCH's for instance 1 of cell A.                                                                        |      |   |             |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                      |      |   |             |
| Nr                          | Label | Behaviour Description                                                                                                                            | CRef | V | 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(actypeT:BITSTRING; slotT:SN; tscT:TSC; chmod:CHMOD; Freqg, Freqd:FRQPARA; ta:TA; babr, cch_con, bpm:B_3) |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                           |      |   |          |
| <b>Objective:</b>           |       | To set one physical channel used as TCHF_ACCH's for instance 1 of cell A.                                                      |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                    |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                          | CRef | V | Comments |
| 1                           |       | (TCV_chTch := C_FACCHF_A_1, TCV_sacchTch := C_SACCHF_A_1, TCV_ctype := '00001'B)                                               |      |   |          |
| 2                           |       | [TSPC_PGSM OR TSPC_EGSM]                                                                                                       |      |   |          |
| 3                           |       | +Config_FACCHF_A_1(63, 19, chmod, actypeT, 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, actypeT, 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(actypeT:BITSTRING; slotT:SN; tscT:TSC; chmod:CHMOD; Freqg, Freqd:FRQPARA; ta:TA; babr, cch_con, bpm:B_3) |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                    |      |   |          |
| <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                                                                                                   | CRef | V | Comments |
| 1                           |       | +FullRateCh_A_2_nociph(actypeT, 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>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                           |      |   |          |
| <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                                                                                                          | CRef | V | 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(acttypeT:BITSTRING; slotT:SN; tscT:TSC; chmod:CHMOD; Freqg,Freqd:FRQPARA; ta:TA; babr, cch_con, bpm:B_3) |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                    |      |   |          |
| <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                                                                                                   | CRef | V | Comments |
| 1                           |       | +FullRateCh_B_1_nociph(acttypeT, slotT, tscT, chmod, Freqg, Freqd, ta, babr, cch_con, bpm)                              |      |   |          |
| 2                           |       | (TCV_Null := OM_CphMd(TCV_chTch, CphMod_01, TCV_CphKey))                                                                |      |   |          |
| <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>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                           |      |   |          |
| <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                                                                                                          | CRef | V | 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_H_1(acttypeT:BITSTRING; slotT:SN; tscT:TSC; ta:TA; babr, cch_con, bpm:B_3)                                               |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                |      |   |          |
| <b>Objective:</b>           |       | To set one physical channel used as TCHF_ACCH's for instance 1 of cell H.                                                           |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                         |      |   |          |
| <b>Comments:</b>            |       | FullRateCh_H_1 uses FreqTCHb and TSPX_TmSlcC.                                                                                       |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                               | CRef | V | Comments |
| 1                           |       | (TCV_chTch := C_FACCHF_H_1, TCV_sacchTch_H := C_SACCHF_H_1)                                                                         |      |   |          |
| 2                           |       | [TSPC_PGSM OR TSPC_EGSM]                                                                                                            |      |   |          |
| 3                           |       | +Config_FACCHF_H_1(63, 19, ChMod_speech, acttypeT, slotT, tscT, FreqTCH(TSPX_TCHcarrierB), C_TCHF_ACCHF_1, ta, babr, cch_con, bpm)  |      |   |          |
| 4                           |       | (TCV_Null := OM_CphMd(TCV_chTch, CphMod_01, TCV_CphKey))                                                                            |      |   |          |
| 5                           |       | [TSPC_DCS]                                                                                                                          |      |   |          |
| 6                           |       | +Config_FACCHF_H_1(63, 15, ChMod_speech, acttypeT, slotT, tscT, FreqTCH(TSPX_TCHcarrierBd), C_TCHF_ACCHF_1, ta, babr, cch_con, bpm) |      |   |          |
| 7                           |       | (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(sub:B_1; actypeT:BITSTRING; slotT:SN; tscT:TSC; chmod:CHMOD; Freqg, Freqd:FRQPARA; arfcng, arfcnd:INTEGER; ta:TA; babr, cch_con, bpm:B_3) |      |   |             |         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                                     |      |   |             |         |
| <b>Objective:</b>           |       | To set one physical channel used as TCHH_ACCH's for instance 1 of cell A.                                                                                |      |   |             |         |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                              |      |   |             |         |
| Nr                          | Label | Behaviour Description                                                                                                                                    | CRef | V | Comments    |         |
| 1                           |       | [arfcng <> C_Noarfcn]                                                                                                                                    |      |   | not hopping |         |
| 2                           |       | +HalfRateCh_A_1_nociph(sub, actypeT, slotT, tscT, chmod, FreqTCH(arfcng), FreqTCH(arfcnd), ta, babr, cch_con, bpm)                                       |      |   |             |         |
| 3                           |       | (TCV_Null := OM_CphMd(TCV_chTch, CphMod_01, TCV_CphKey))                                                                                                 |      |   |             |         |
| 4                           |       | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                                 |      |   |             |         |
| 5                           |       | (TCV_tch_arfcn:= arfcng)                                                                                                                                 |      |   |             |         |
| 6                           |       | [TSPC_DCS]                                                                                                                                               |      |   |             |         |
| 7                           |       | (TCV_tch_arfcn:= arfcnd)                                                                                                                                 |      |   |             |         |
| 8                           |       | [arfcng = C_Noarfcn]                                                                                                                                     |      |   |             | hopping |
| 9                           |       | +HalfRateCh_A_1_nociph(sub, actypeT, 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>      |       | HalfRateCh_A_1_nociph(sub:B_1; actypeT:BITSTRING; slotT:SN; tscT:TSC; chmod:CHMOD; Freqg, Freqd:FRQPARA; ta:TA; babr, cch_con, bpm:B_3) |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                    |      |   |          |
| <b>Objective:</b>           |       | To set one physical channel used as TCHH_ACCH's for instance 1 of cell A.                                                               |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                             |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                   | CRef | V | 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, actypeT, 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, actypeT, slotT, tscT, Freqd, C_TCHH_ACCHH_1, ta, babr, cch_con, bpm)                                  |      |   |          |
| 8                           |       | +SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5, TCV_sysinfo6)                                                                         |      |   |          |
| 9                           |       | +localtree                                                                                                                              |      |   |          |
|                             |       | <b>localtree</b>                                                                                                                        |      |   |          |
| 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> GSM_L3_MS_v4180/management/ChConfig/                                                                                                          |       |                                                                                                     |      |   |          |
| <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                                                                               | CRef | V | 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> GSM_L3_MS_v4180/management/ChConfig/                                                                                                                 |       |                                                                                                               |      |   |          |
| <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                                                                                         | CRef | V | Comments |
| 1                                                                                                                                                                  |       | (TCV_chTch1 := OC_SubchOfFacchh(bstring, C_CellA, 2), TCV_sacchTch1 := OC_SubchOfSacchh(bstring, C_CellA, 2)) |      |   |          |
| 2                                                                                                                                                                  |       | [TSPC_PGSM OR TSPC_EGSM]                                                                                      |      |   |          |
| 3                                                                                                                                                                  |       | +Config_FACCHH_A_2(63, 19, chmod, acttypeT, slotT, tscT, Freqg, C_TCHH_ACCHH_2, ta, babr, cch_con, bpm)       |      |   |          |
| 4                                                                                                                                                                  |       | +SysInfo_SacchSending(TCV_sacchTch1, TCV_sysinfo5, TCV_sysinfo6)                                              |      |   |          |
| 5                                                                                                                                                                  |       | [TSPC_DCS]                                                                                                    |      |   |          |
| 6                                                                                                                                                                  |       | +Config_FACCHH_A_2(63, 15, chmod, acttypeT, slotT, tscT, Freqd, C_TCHH_ACCHH_2, ta, babr, cch_con, bpm)       |      |   |          |
| 7                                                                                                                                                                  |       | +SysInfo_SacchSending(TCV_sacchTch1, TCV_sysinfo5, TCV_sysinfo6)                                              |      |   |          |
| <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> GSM_L3_MS_v4180/management/ChConfig/                                                                                                          |       |                                                                                                     |      |   |          |
| <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                                                                               | CRef | V | 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; actypeT:BITSTRING; slotT:SN; tscT:TSC; chmod:CHMOD; Freqg,Freqd:FRQPARA; ta:TA; babr, cch_con, bpm:B_3) |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                       |      |   |          |
| <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                                                                                                                      | CRef | V | 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, actypeT, 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, actypeT, 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; actypeT:BITSTRING; slotT:SN; tscT:TSC; chmod:CHMOD; Freqg,Freqd:FRQPARA; ta:TA; babr, cch_con, bpm:B_3) |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                  |      |   |          |
| <b>Objective:</b>           |       | To set one physical channel used as SDCCH8 channel for instance 1 of cell A.                                                          |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                           |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                 | CRef | V | Comments |
| 1                           |       | +SDCCH8_A_1_nociph(bstring, actypeT, 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 |       |                                                                                                                                        |      |   |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | SDCCH8_A_1_nociph(bstring:B_3; actypeT:BITSTRING; slotT:SN; tscT:TSC; chmod:CHMOD; Freqg,Freqd:FRQPARA; ta:TA; babr, cch_con, bpm:B_3) |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                   |      |   |          |
| <b>Objective:</b>           |       | To set one physical channel used as SDCCH8 channel for instance 1 of cell A.                                                           |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                            |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                  | CRef | V | 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, actypeT, slotT, tscT, Freqg, C_SDCCH8_SACCH8_1, ta, babr, cch_con, bpm)                              |      |   |          |
| 4                           |       | +SysInfo_SacchSending(TCV_sacch8, TCV_sysinfo5, TCV_sysinfo6)                                                                          |      |   |          |
| 5                           |       | [TSPC_DCS]                                                                                                                             |      |   |          |
| 6                           |       | +Config_SDCCH8_A_1(63, 19, chmod, actypeT, slotT, tscT, Freqd, C_SDCCH8_SACCH8_1, ta, babr, cch_con, bpm)                              |      |   |          |
| 7                           |       | +SysInfo_SacchSending(TCV_sacch8, TCV_sysinfo5, TCV_sysinfo6)                                                                          |      |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                        |      |   |          |

| 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> GSM_L3_MS_v4180/management/ChConfig/                                                                                                             |       |                                                                                                             |      |   |          |
| <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                                                                                       | CRef | V | 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> GSM_L3_MS_v4180/management/ChConfig/                                                                                                      |       |                                                                                                 |      |   |          |
| <b>Objective:</b> To set one physical channel used as hopping SDCCH8 channel for instance 1 of cell B.                                                  |       |                                                                                                 |      |   |          |
| <b>Default:</b> OtherEvents                                                                                                                             |       |                                                                                                 |      |   |          |
| Nr                                                                                                                                                      | Label | Behaviour Description                                                                           | CRef | V | 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>               |       | GSM_L3_MS_v4180/management/ChConfig/                                                                                                    |      |   |          |
| <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                                                                                                                   | CRef | V | Comments |
| 1                           |       | (TCV_chTch := OC_SubchOfSdcch8(bstring, C_CellB, 1), TCV_sacchTch := OC_SubchOfSacch8(bstring, C_CellB, 1))                             |      |   |          |
| 2                           |       | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                |      |   |          |
| 3                           |       | +Config_SDCCH8_B_1(63, 19, chmod, acttypeT, slotT, tscT, Freqg, C_SDCCH8_SACCH8_1, ta, babr, cch_con, bpm)                              |      |   |          |
| 4                           |       | +SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5_B, TCV_sysinfo6_B)                                                                     |      |   |          |
| 5                           |       | [TSPC_DCS]                                                                                                                              |      |   |          |
| 6                           |       | +Config_SDCCH8_B_1(63, 15, chmod, acttypeT, slotT, tscT, Freqd, C_SDCCH8_SACCH8_1, ta, babr, cch_con, bpm)                              |      |   |          |
| 7                           |       | +SysInfo_SacchSending(TCV_sacchTch, TCV_sysinfo5_B, TCV_sysinfo6_B)                                                                     |      |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                         |      |   |          |

### Test Step Group Miscellaneous

| Test Step Dynamic Behaviour |       |                                                                                   |      |   |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | Adjust_gsmmanddcs_powerlvl(powerlevel1,powerlevel2:INTEGER; pdu_ass: ASS_CMD_PDU) |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/                                                    |      |   |          |
| <b>Objective:</b>           |       |                                                                                   |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                       |      |   |          |
| Nr                          | Label | Behaviour Description                                                             | CRef | V | Comments |
| 1                           |       | [TSPC_PGSM OR TSPC_EGSM]                                                          |      |   |          |
| 2                           |       | [powerlevel1 <> 0]                                                                |      |   |          |
| 3                           |       | (pdu_ass.pcmd := Pcmd_19(INT_TO_BIT(powerlevel1,5)))                              |      |   |          |
| 4                           |       | [powerlevel1 = 0]                                                                 |      |   |          |
| 5                           |       | [TSPC_DCS]                                                                        |      |   |          |
| 6                           |       | (pdu_ass.pcmd := Pcmd_19(INT_TO_BIT(powerlevel2,5)))                              |      |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                   |      |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                |                                                                |     |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-----|----------|
| <b>Test Step Name:</b>      |       | AOC_CHK_FAC(ti:TI)                                                                                                                                                                                             |                                                                |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/                                                                                                                                                                                 |                                                                |     |          |
| <b>Objective:</b>           |       | Reception of FACILITY and callinh check_AOCCackTime                                                                                                                                                            |                                                                |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                |                                                                |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                          | CRef                                                           | V   | Comments |
| 1                           |       | L?DL_DatInConnAck                                                                                                                                                                                              | ConnAckRcv(ConnectAck_02(ti))                                  |     |          |
| 2                           |       | (TCV_Fn := OM_ReturnFn(TCV_chTch))                                                                                                                                                                             |                                                                |     | 1.       |
| 3                           |       | L?DL_DatInFac ( TCV_Fn1 := DL_DatInFac.fn)<br>CANCEL T_dly1                                                                                                                                                    | FacilityRcv(FacilityPdu_26(ti, facilityIrcv(FwdChAdvRslt_01))) | (P) | 2.       |
| 4                           |       | +Check_Time(C_T_Wait_FAC)                                                                                                                                                                                      |                                                                |     |          |
| 5                           |       | ?TIMEOUT T_dly1                                                                                                                                                                                                |                                                                | (F) |          |
| 6                           |       | +PostLinkRelEnd(TCV_chTch)                                                                                                                                                                                     |                                                                |     |          |
| 7                           |       | L?DL_DatInFac ( TCV_Fn1 := DL_DatInFac.fn)                                                                                                                                                                     | FacilityRcv(FacilityPdu_26(ti, facilityIrcv(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                          |       | ?TIMEOUT T_dly1                                                                                                                                                                                                |                                                                | (F) |          |
| 12                          |       | +PostLinkRelEnd(TCV_chTch)                                                                                                                                                                                     |                                                                |     |          |
| 13                          |       | ?TIMEOUT T_dly1                                                                                                                                                                                                |                                                                | (F) |          |
| 14                          |       | +PostLinkRelEnd(TCV_chTch)                                                                                                                                                                                     |                                                                |     |          |
| <b>Detailed Comments:</b>   |       | 1. Get the first frame number for transmitting of CONNECT message containing AOC information.<br>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>               |       | GSM_L3_MS_v4180/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                                                                                               |                          |     |          |
| Nr                          | Label | Behaviour Description                                                                                     | CRef                     | V   | Comments |
| 1                           |       | L!DL_DatRqAssCmd START T_dlyAss                                                                           | AssCmd(oldch,pdu_ass)    |     |          |
| 2                           |       | ?TIMEOUT T_dlyAss                                                                                         |                          | (F) |          |
| 3                           |       | +PostLinkRelEnd(oldch)                                                                                    |                          |     |          |
| 4                           |       | L?DL_EstIn (TCV_FnAss := DL_EstIn.fn) CANCEL<br>T_dlyAss                                                  | DLEstInd(newch)          |     |          |
| 5                           |       | L?DL_DatInAssCom                                                                                          | AssCmp(newch,AsgnCmp_02) | (P) |          |
| 6                           |       | LIMDL_RelRq                                                                                               | MDLRelReq(oldch)         |     |          |
| 7                           |       | L?DL_EstIn CANCEL T_dlyAss                                                                                | DLEstInd(oldch)          |     |          |
| 8                           |       | L?DL_DatInAssfl                                                                                           | AssFl_any_cau(oldch)     | (F) |          |
| 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>               |       | GSM_L3_MS_v4180/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                                                                                          |                    |     |          |
| Nr                          | Label | Behaviour Description                                                                                    | CRef               | V   | Comments |
| 1                           |       | L!DL_DatRqAssCmd START T_dlyAss(4000)                                                                    | AssCmd(ch,pdu_ass) |     |          |
| 2                           |       | [any]                                                                                                    |                    |     |          |
| 3                           |       | ?TIMEOUT T_dlyAss                                                                                        |                    | (F) |          |
| 4                           |       | +PostLinkRelEnd(ch)                                                                                      |                    |     |          |
| 5                           |       | L?DL_EstIn (TCV_FnAss := DL_EstIn.fn)<br>CANCEL T_dlyAss                                                 | DLEstIn(ch)        |     |          |
| 6                           |       | L?DL_DatInAssfl                                                                                          | AssFI_any_cau(ch)  | (P) |          |
| 7                           |       | [NOT any]                                                                                                |                    |     |          |
| 8                           |       | ?TIMEOUT T_dlyAss                                                                                        |                    | (F) |          |
| 9                           |       | +PostLinkRelEnd(ch)                                                                                      |                    |     |          |
| 10                          |       | L?DL_EstIn (TCV_FnAss := DL_EstIn.fn)<br>CANCEL T_dlyAss                                                 | DLEstIn(ch)        |     |          |
| 11                          |       | L?DL_DatInAssfl                                                                                          | AssFI_02(ch)       | (P) |          |
| <b>Detailed Comments:</b>   |       |                                                                                                          |                    |     |          |

| Test Step Dynamic Behaviour                                                                                               |       |                                                                                                                                |      |   |           |           |
|---------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------|------|---|-----------|-----------|
| <b>Test Step Name:</b> AssCmdGen(cell:CellID; rate:IA5String; slot:SN; tsc:TSC; sch:B_1)                                  |       |                                                                                                                                |      |   |           |           |
| <b>Group:</b> GSM_L3_MS_v4180/Miscellaneous/                                                                              |       |                                                                                                                                |      |   |           |           |
| <b>Objective:</b> To generate the ASSIGNMENT COMMAND message.                                                             |       |                                                                                                                                |      |   |           |           |
| <b>Default:</b> OtherEvents                                                                                               |       |                                                                                                                                |      |   |           |           |
| Nr                                                                                                                        | Label | Behaviour Description                                                                                                          | CRef | V | 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                                                                                                                    |      |   |           |           |
| <b>ltree_Asgn</b>                                                                                                         |       |                                                                                                                                |      |   |           |           |
| 11                                                                                                                        |       | [cell = C_CellA]                                                                                                               |      |   |           |           |
| 12                                                                                                                        |       | +ltree_AsgnTchA                                                                                                                |      |   |           |           |
| 13                                                                                                                        |       | [cell = C_CellB]                                                                                                               |      |   |           |           |
| 14                                                                                                                        |       | +ltree_AsgnTchB                                                                                                                |      |   |           |           |
| <b>ltree_AsgnTchA</b>                                                                                                     |       |                                                                                                                                |      |   |           |           |
| 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)) |      |   |           |           |
| <b>ltree_AsgnTchB</b>                                                                                                     |       |                                                                                                                                |      |   |           |           |
| 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)) |      |   |           |           |
| <b>Detailed Comments:</b> 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>               |       | GSM_L3_MS_v4180/Miscellaneous/                                                                                                                                                                 |      |   |           |
| <b>Objective:</b>           |       | To generate a ASSIGNMENT COMMAND message in case of hopping without starting time.                                                                                                             |      |   |           |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                    |      |   |           |
| Nr                          | Label | Behaviour Description                                                                                                                                                                          | CRef | V | 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                                                                                                                                                                                    |      |   |           |
| <b>ltree_Asgn</b>           |       |                                                                                                                                                                                                |      |   |           |
| 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>                                   |       | GSM_L3_MS_v4180/Miscellaneous/                           |                                      |     |          |
| <b>Objective:</b>                               |       |                                                          |                                      |     |          |
| <b>Default:</b>                                 |       | OtherEventsFail                                          |                                      |     |          |
| Nr                                              | Label | Behaviour Description                                    | CRef                                 | V   | 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                                               |       | [NOT TCV_Res]                                            |                                      | (F) | 1)       |
| 5                                               |       | [TCV_Res]                                                |                                      | (P) |          |
| <b>Detailed Comments:</b> Authentication fails. |       |                                                          |                                      |     |          |

| <b>Test Step Dynamic Behaviour</b> |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |                    |
|------------------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|--------------------|
| <b>Test Step Name:</b>             |       | CallProcGen(setup:SETUP_MO_PDU; srv:SERVICES)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |                    |
| <b>Group:</b>                      |       | GSM_L3_MS_v4180/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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CRef | V | 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)                                                                                                                                                                                                                                                                                                                                                                                                                         |      |   |                    |
| 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<br>2. BCAP1 is speech and BCAP2 requires negotiation<br>3. BCAP2 is speech and BCAP1 does not require negotiation, the CallProc will contain no BCAP's<br>4. BCAP2 is speech and BCAP1 requires negotiation<br>5. BCAP2 does not exist and BCAP1 is speech, the CallProc will contain no BCAP's<br>6. BCAP2 does not exist and BCAP1 requires negotiation<br>7. BCAP2 does not exist and BCAP1 does not require negotiation<br>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>               |       | GSM_L3_MS_v4180/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 for the traffic channel and TCV_chtype the channel type.                                                                                         |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                | CRef | V | Comments |
| 1                           |       | (TCV_Null := OM_ChMdModi( TCV_chTch, TCV_ChMod), TCV_Null := OM_CphMd( TCV_chTch, CphMod_01, TCV_CphKey))                                                                                                                                                                                                                            |      |   |          |
| 2                           |       | +ltree_Asgn                                                                                                                                                                                                                                                                                                                          |      |   | 1.       |
| 3                           |       | +AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)                                                                                                                                                                                                                                                                                       |      |   | 2. 3.    |
| 4                           |       | <b>ltree_Asgn</b>                                                                                                                                                                                                                                                                                                                    |      |   |          |
| 5                           |       | [TSPC_PGSM OR TSPC_EGSM]<br>(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>   |       | <ol style="list-style-type: none"> <li>1. To assign the suitable traffic channel to the MS.</li> <li>2. ASSIGN COMMAND with channel mode, channel description and power command.<br/>The channel mode and type (TCH/H or TCH/F) and power command are supplied as parameter.</li> <li>3. Different power command for DCS.</li> </ol> |      |   |          |

| <b>Test Step Dynamic Behaviour</b> |       |                                                                                                                                                                                                  |      |   |                       |
|------------------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|-----------------------|
| <b>Test Step Name:</b>             |       | CCCH_group_Paging_group(ccd: CCD; imsi: HEXSTRING)                                                                                                                                               |      |   |                       |
| <b>Group:</b>                      |       | GSM_L3_MS_v4180/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                                                                                                                                                                                      |      |   |                       |
| Nr                                 | Label | Behaviour Description                                                                                                                                                                            | CRef | V | 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                                                                                                                                                                                      |      |   |                       |
|                                    |       | <b>localtree1</b>                                                                                                                                                                                |      |   |                       |
| 16                                 |       | (TCV_bs_ag_blks_res := BIT_TO_INT(ccd.babr),<br>TCV_bs_pa_mfrms := (2 + BIT_TO_INT(ccd.bpm)))                                                                                                    |      |   |                       |
| 17                                 |       | [ccd.ccch_con = '001'B]                                                                                                                                                                          |      |   | i.e. combined         |
| 18                                 |       | [(TCV_bs_ag_blks_res < 0)<br>OR(TCV_bs_ag_blks_res > 2)]                                                                                                                                         |      | I | Stop! A tester error. |
| 19                                 |       | [(TCV_bs_ag_blks_res >= 0) AND<br>(TCV_bs_ag_blks_res <= 2)]                                                                                                                                     |      |   |                       |
| 20                                 |       | (TCV_tmp := 3 - TCV_bs_ag_blks_res)                                                                                                                                                              |      |   |                       |
| 21                                 |       | +localtree2                                                                                                                                                                                      |      |   |                       |
| 22                                 |       | [ccd.ccch_con <> '001'B]                                                                                                                                                                         |      |   | i.e. not combined     |
| 23                                 |       | [(TCV_bs_ag_blks_res < 0)<br>OR(TCV_bs_ag_blks_res > 7)]                                                                                                                                         |      | I | Stop! A tester error. |
| 24                                 |       | [(TCV_bs_ag_blks_res >= 0) AND<br>(TCV_bs_ag_blks_res <= 7)]                                                                                                                                     |      |   |                       |
| 25                                 |       | (TCV_tmp := 9 - TCV_bs_ag_blks_res)                                                                                                                                                              |      |   |                       |
| 26                                 |       | +localtree2                                                                                                                                                                                      |      |   | ini. TCV Pgg          |
|                                    |       | <b>localtree2</b>                                                                                                                                                                                |      |   |                       |
| 27                                 |       | (TCV_tmp := TCV_tmp * TCV_bs_pa_mfrms)                                                                                                                                                           |      |   |                       |
| 28                                 |       | (TCV_Pgg := INT_TO_BIT((((OC_BCDtoInt(imsi, 3))<br>MOD(TCV_bs_cc_chans * TCV_tmp)) MOD<br>TCV_tmp), 8), TCV_Ccchg :=<br>((((OC_BCDtoInt(imsi, 3)) MOD(TCV_bs_cc_chans *<br>TCV_tmp)) / TCV_tmp)) |      |   |                       |
| <b>Detailed Comments:</b>          |       |                                                                                                                                                                                                  |      |   |                       |

| Test Step Dynamic Behaviour |       |                                                                                  |                                                                                                                                     |   |          |
|-----------------------------|-------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---|----------|
| <b>Test Step Name:</b>      |       | CCEstablishMO_SDCCH4(ta:TA)                                                      |                                                                                                                                     |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/                                                   |                                                                                                                                     |   |          |
| <b>Objective:</b>           |       | Establish a MO SDCCH/4 connection. This is used in CC testing                    |                                                                                                                                     |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                  |                                                                                                                                     |   |          |
| Nr                          | Label | Behaviour Description                                                            | CRef                                                                                                                                | V | Comments |
| 1                           |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn) | ChReq(ChRequest_1<br>9)                                                                                                             |   | 1.       |
| 2                           |       | LIDL_UdatRqImm                                                                   | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>ta)) |   |          |
| <b>Detailed Comments:</b>   |       | 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>               |       | GSM_L3_MS_v4180/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.<br>TCV_chTch contains the identifier for the traffic channel and TCV_cht the channel type. |                                                                                                                               |   |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                        | CRef                                                                                                                          | V | Comments                |
| 1                           |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                             | ChReq(ChRequest_1<br>9)                                                                                                       |   | To match ChReq retrans. |
| 2                           |       | ACTIVATE(OtherEvents_02)                                                                                                                                                                     |                                                                                                                               |   |                         |
| 3                           |       | LIDL_UdatRqImm                                                                                                                                                                               | ImmAss(C_AGCH_A<br>_1,<br>ImmAsgn_nfh(TCV_R<br>r, TCV_Fn,<br>TCV_ctype, slot, tsc,<br>ta, TCV_tch_arfcn,<br>C_normal_paging)) |   |                         |
| <b>Detailed Comments:</b>   |       | 1. To assign TCH/F or TCH/H.                                                                                                                                                                 |                                                                                                                               |   |                         |

| Test Step Dynamic Behaviour |       |                                                               |                                                                                                                                     |   |                               |
|-----------------------------|-------|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------------|
| <b>Test Step Name:</b>      |       | CCEstablishMT_SDCCH4(ta:TA)                                   |                                                                                                                                     |   |                               |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/                                |                                                                                                                                     |   |                               |
| <b>Objective:</b>           |       | Establish a MT SDCCH/4 connection. This is used in CC testing |                                                                                                                                     |   |                               |
| <b>Default:</b>             |       | OtherEvents                                                   |                                                                                                                                     |   |                               |
| Nr                          | Label | Behaviour Description                                         | CRef                                                                                                                                | V | Comments                      |
| 1                           |       | +CCPage                                                       |                                                                                                                                     |   | To match ChReq retrans.<br>1. |
| 2                           |       | ACTIVATE(OtherEvents_02)                                      |                                                                                                                                     |   |                               |
| 3                           |       | LIDL_UdatRqImm                                                | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>ta)) |   |                               |
| 4                           |       | L?DL_EstInPgRes                                               | PagingRes(PagingRe<br>s_03)                                                                                                         |   | Restore Normal default        |
| 5                           |       | ACTIVATE(OtherEvents)                                         |                                                                                                                                     |   |                               |
| <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> GSM_L3_MS_v4180/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    | CRef                                                                                                                   | V | Comments                |
| 1                                                                                                                                                                                                          |       | +CCPage                  |                                                                                                                        |   | To match ChReq retrans. |
| 2                                                                                                                                                                                                          |       | ACTIVATE(OtherEvents_02) |                                                                                                                        |   |                         |
| 3                                                                                                                                                                                                          |       | LIDL_UdatRqImmss         | ImmAss(C_AGCH_A_1,<br>ImmAsgn_nfh(TCV_Rr, TCV_Fn,<br>TCV_chtype, slot, tsc,<br>ta, TCV_tch_arfcn,<br>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                                                                                                                                                                                  |       |                                 |                                   |   |          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------|-----------------------------------|---|----------|
| <b>Test Step Name:</b> CC_Est_MT_Call                                                                                                                                                                        |       |                                 |                                   |   |          |
| <b>Group:</b> GSM_L3_MS_v4180/Miscellaneous/                                                                                                                                                                 |       |                                 |                                   |   |          |
| <b>Objective:</b> To perform the CC message exchange to establish a mobile station terminating call.                                                                                                         |       |                                 |                                   |   |          |
| <b>Default:</b> OtherEvents                                                                                                                                                                                  |       |                                 |                                   |   |          |
| Nr                                                                                                                                                                                                           | Label | Behaviour Description           | CRef                              | V | Comments |
| 1                                                                                                                                                                                                            |       | (TCV_Setup_mt.sig := Signal_01) |                                   |   | 1)       |
| 2                                                                                                                                                                                                            |       | L!DL_DatRqSetup                 | SetupSnd(TCV_ch,<br>TCV_Setup_mt) |   |          |
| 3                                                                                                                                                                                                            |       | L?DL_DatInCallCo                | CallCfm(CallConfirm_20(TI_01))    |   |          |
| 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))        |   |          |
| <b>Detailed Comments:</b> 1. If the MS supports the bearer capabilities, which are give in Setup message, it has to accept them. Therefor, they are no bearer capabilities expected in Call Confirm message. |       |                                 |                                   |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                               |                                                        |   |           |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|---|-----------|
| <b>Test Step Name:</b>      |       | CC_EstMsTermCall(rate:IA5String)                                                                                                                                                                              |                                                        |   |           |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/                                                                                                                                                                                |                                                        |   |           |
| <b>Objective:</b>           |       | 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) |                                                        |   |           |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                   |                                                        |   |           |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                         | CRef                                                   | V | Comments  |
| 1                           |       | +CC_Est_MT_Call                                                                                                                                                                                               |                                                        |   |           |
| 2                           |       | +ltree_Asgn                                                                                                                                                                                                   |                                                        |   |           |
| 3                           |       | +Adjust_gsmanddcs_powerlvl(0, 15,<br>TCV_AssCmd)                                                                                                                                                              |                                                        |   |           |
| 4                           |       | +AssCh_complete(TCV_ch, TCV_chTch,<br>TCV_AssCmd)                                                                                                                                                             |                                                        |   |           |
| 5                           |       | L!DL_DatRqConnAck                                                                                                                                                                                             | ConnAckSnd(TCV_ch<br>Tch,<br>ConnectAck_01(TI_0<br>2)) |   |           |
|                             |       | <b>ltree_Asgn</b>                                                                                                                                                                                             |                                                        |   |           |
| 6                           |       | [rate <> C_Half]                                                                                                                                                                                              |                                                        |   | Full rate |
| 7                           |       | (TCV_Tchtype := '00001'B)                                                                                                                                                                                     |                                                        |   |           |
| 8                           |       | (TCV_AssCmd := AsgnCmd_nfh(TCV_Tchtype,<br>TCV_asscmd_ts, TSPX_TscDef, 9,<br>TCV_tch_arfcn, CellChDes_omit, ChMod_omit,<br>StartingTm_omit, CphMod_omit))                                                     |                                                        |   |           |
| 9                           |       | [rate = C_Half]                                                                                                                                                                                               |                                                        |   | Half rate |
| 10                          |       | (TCV_Tchtype := INT_TO_BIT((2 +<br>BIT_TO_INT(TSPX_TCHHSubDef)), 5))                                                                                                                                          |                                                        |   |           |
| 11                          |       | (TCV_AssCmd := AsgnCmd_nfh(TCV_Tchtype,<br>TCV_asscmd_ts, TSPX_TscDef, 9,<br>TCV_tch_arfcn, CellChDes_omit, ChMod_omit,<br>StartingTm_omit, CphMod_omit))                                                     |                                                        |   |           |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                               |                                                        |   |           |

| Test Step Dynamic Behaviour |       |                                                                                                                                                        |                                                                                              |   |          |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---|----------|
| <b>Test Step Name:</b>      |       | CCModifyTCH(slot :SN; tsc:TSC)                                                                                                                         |                                                                                              |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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                                                                                                                                  | CRef                                                                                         | V | Comments |
| 1                           |       | (TCV_Null := OM_ChMdModi(TCV_chTch,<br>TCV_ChMod))                                                                                                     |                                                                                              |   |          |
| 2                           |       | L!DL_DatRqChmmo                                                                                                                                        | ChmmoReqSnd(TCV<br>_chTch,<br>ChmomoReq_07(TCV<br>_chtype,<br>TCV_ChMod.mode,<br>slot, tsc)) |   |          |
| 3                           |       | L?DL_DatInChmmoAck                                                                                                                                     | ChmmoAckRcv(TCV_<br>chTch,<br>ChmomoAck_08(TCV<br>_chtype,<br>TCV_ChMod.mode,<br>slot, tsc)) |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                        |                                                                                              |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                    |                                        |   |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------|----------------------------------------|---|----------|
| <b>Test Step Name:</b>      |       | CCPage                                                                                             |                                        |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/                                                                     |                                        |   |          |
| <b>Objective:</b>           |       | Send paging request and wait for channel request. This is used 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                                                                              | CRef                                   | V | 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)                    |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                    |                                        |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                |                                     |   |          |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---|----------|
| <b>Test Step Name:</b>      |       | CCstatuschk_01(ch: LOGICCH; st:CCSTATE)                                                                                                                                        |                                     |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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                                                                                                                                                          | CRef                                | V | 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>               |       | GSM_L3_MS_v4180/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                                                                        | CRef                                 | V   | 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                           |       | [TCV_CCst.csv <> INT_TO_BIT(st, 6)]                                                          |                                      | (I) | 2.       |
| 6                           |       | +PostLinkRelEnd(ch)                                                                          |                                      |     |          |
| 7                           |       | [(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.<br>2. Not in CC state 'st'.<br>3. Cause is not #30. |                                      |     |          |



| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                              |                                            |     |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----|----------|
| <b>Test Step Name:</b>      |       | CCstatuschk_03(st:CCSTATE; Ti:Ti)                                                                                                                                                                                                            |                                            |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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 transcaction initiated by the MS. The calling tree shall prepare the variable for the step: TCV_ch. |                                            |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                        | CRef                                       | V   | Comments |
| 1                           |       | (TCV_TI1 := Ti, TCV_TI1.ti_f := '0'B)                                                                                                                                                                                                        |                                            |     |          |
| 2                           |       | L!DL_DatRqCcstEnq                                                                                                                                                                                                                            | CCStESnd(TCV_ch, CCStatusEq_01(Ti))        |     |          |
| 3                           |       | L?DL_DatInCcst                                                                                                                                                                                                                               | CCStRcv(TCV_ch, CCStatus_14(TCV_TI 1, st)) | (P) |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                              |                                            |     |          |

| Test Step Dynamic Behaviour |       |                                                                                            |                                        |     |          |
|-----------------------------|-------|--------------------------------------------------------------------------------------------|----------------------------------------|-----|----------|
| <b>Test Step Name:</b>      |       | CCstatuschk_05(st:CCSTATE; ti:Ti; ch: LOGICCH)                                             |                                        |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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                                                                      | CRef                                   | V   | 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                                                                                 |                                        |     |          |
|                             |       | <b>localtree</b>                                                                           |                                        |     |          |
| 8                           |       | L!DL_DatRqCcstEnq                                                                          | CCStESnd(ch, CCStatusEq_01(ti))        |     |          |
| 9                           |       | L?DL_DatInCcst                                                                             | CCStRcv(ch, CCStatus_14(TCV_TI 1, st)) | (P) |          |
| <b>Detailed Comments:</b>   |       |                                                                                            |                                        |     |          |

| Test Step Dynamic Behaviour |       |                                |      |     |          |
|-----------------------------|-------|--------------------------------|------|-----|----------|
| <b>Test Step Name:</b>      |       | Check_Time(maxtime: INTEGER)   |      |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/ |      |     |          |
| <b>Objective:</b>           |       |                                |      |     |          |
| <b>Default:</b>             |       | OtherEventsFail                |      |     |          |
| Nr                          | Label | Behaviour Description          | CRef | V   | Comments |
| 1                           |       | +FnArith(TCV_Fn, TCV_Fn1)      |      |     |          |
| 2                           |       | [TCV_Time <= maxtime]          |      | (P) |          |
| 3                           |       | [TCV_Time > maxtime]           |      | (F) |          |
| <b>Detailed Comments:</b>   |       |                                |      |     |          |

| Test Step Dynamic Behaviour                                                                                  |       |                                                                                     |                                                    |     |          |
|--------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|----------------------------------------------------|-----|----------|
| <b>Test Step Name:</b> CheckTlInStateU0(mo: BOOLEAN; ch: LOGICCH)                                            |       |                                                                                     |                                                    |     |          |
| <b>Group:</b> GSM_L3_MS_v4180/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                                                                              |       |                                                                                     |                                                    |     |          |
| Nr                                                                                                           | Label | Behaviour Description                                                               | CRef                                               | V   | 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                                                                         |                                                    |     |          |
| <b>localtree1</b>                                                                                            |       |                                                                                     |                                                    |     |          |
| 7                                                                                                            |       | (TCV_Cnt := 0)                                                                      |                                                    |     |          |
| 8                                                                                                            |       | REPEAT localtree2 UNTIL [TCV_Cnt = 7]                                               |                                                    |     |          |
| <b>localtree2</b>                                                                                            |       |                                                                                     |                                                    |     |          |
| 9                                                                                                            |       | (TCV_TI1.ti_v := INT_TO_BIT(TCV_Cnt, 3),<br>TCV_TI2.ti_v := INT_TO_BIT(TCV_Cnt, 3)) |                                                    |     |          |
| 10                                                                                                           |       | L!DL_DatRqCstEnq                                                                    | CCStESnd(ch,<br>CCStatusEq_01(TCV<br>_TI1))        |     |          |
| 11                                                                                                           |       | L?DL_DatInRelCmp                                                                    | RelComRcv(Release<br>CmpRcv(TCV_TI2,<br>Cause_07)) | (P) | 2.       |
| 12                                                                                                           |       | (TCV_Cnt := TCV_Cnt + 1)                                                            |                                                    |     |          |
| <b>Detailed Comments:</b>                                                                                    |       |                                                                                     |                                                    |     |          |

| Test Step Dynamic Behaviour                                                                           |       |                                                   |      |     |          |
|-------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------|------|-----|----------|
| <b>Test Step Name:</b> ChkMsrmtRpt(index1, index2:INTEGER)                                            |       |                                                   |      |     |          |
| <b>Group:</b> GSM_L3_MS_v4180/Miscellaneous/                                                          |       |                                                   |      |     |          |
| <b>Objective:</b> Check whether the measurement report is correct and assign the verdict accordingly. |       |                                                   |      |     |          |
| <b>Default:</b> OtherEventsFail                                                                       |       |                                                   |      |     |          |
| Nr                                                                                                    | Label | Behaviour Description                             | CRef | V   | Comments |
| 1                                                                                                     |       | [TSPC_PGSM OR TSPC_EGSM]                          |      |     |          |
| 2                                                                                                     |       | (TCV_Res := OC_MsrReptChk(TCV_MsrRes,<br>index1)) |      |     |          |
| 3                                                                                                     |       | [NOT TCV_Res]                                     |      | (F) |          |
| 4                                                                                                     |       | [TCV_Res]                                         |      | (P) |          |
| 5                                                                                                     |       | [TSPC_DCS]                                        |      |     |          |
| 6                                                                                                     |       | (TCV_Res := OC_MsrReptChk(TCV_MsrRes,<br>index2)) |      |     |          |
| 7                                                                                                     |       | [NOT TCV_Res]                                     |      | (F) |          |
| 8                                                                                                     |       | [TCV_Res]                                         |      | (P) |          |
| <b>Detailed Comments:</b>                                                                             |       |                                                   |      |     |          |

| Test Step Dynamic Behaviour                       |       |                                                             |                              |     |          |
|---------------------------------------------------|-------|-------------------------------------------------------------|------------------------------|-----|----------|
| <b>Test Step Name:</b> Ciphering_off(ch: LOGICCH) |       |                                                             |                              |     |          |
| <b>Group:</b> GSM_L3_MS_v4180/Miscellaneous/      |       |                                                             |                              |     |          |
| <b>Objective:</b>                                 |       |                                                             |                              |     |          |
| <b>Default:</b> OtherEventsFail                   |       |                                                             |                              |     |          |
| Nr                                                | Label | Behaviour Description                                       | CRef                         | V   | Comments |
| 1                                                 |       | (TCV_Null := OM_CphMdChg(TCV_ch, CphMod_02,<br>TCV_CphKey)) |                              |     |          |
| 2                                                 |       | L!DL_DatRqCphmCmd                                           | CphCmd(ch,<br>CphModeCmd_02) |     |          |
| 3                                                 |       | L?DL_DatInCphmCom                                           | CphCom(CphModeC<br>mp_01)    | (P) |          |
| <b>Detailed Comments:</b>                         |       |                                                             |                              |     |          |

| Test Step Dynamic Behaviour |       |                                                        |                           |     |          |
|-----------------------------|-------|--------------------------------------------------------|---------------------------|-----|----------|
| <b>Test Step Name:</b>      |       | Cipherring_on(ch: LOGICCH)                             |                           |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/                         |                           |     |          |
| <b>Objective:</b>           |       | Send cipher command and wait for successful completion |                           |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                        |                           |     |          |
| Nr                          | Label | Behaviour Description                                  | CRef                      | V   | Comments |
| 1                           |       | (TCV_Null := OM_CphMdChg(ch, CphMod_01, TCV_CphKey))   |                           |     |          |
| 2                           |       | L!DL_DatRqCphmCmd                                      | CphCmd(ch, CphModeCmd_01) |     |          |
| 3                           |       | L?DL_DatInCphmCom                                      | CphCom(CphModeCmp_01)     | (P) |          |
| <b>Detailed Comments:</b>   |       |                                                        |                           |     |          |

| Test Step Dynamic Behaviour                               |       |                                                  |                                      |     |          |
|-----------------------------------------------------------|-------|--------------------------------------------------|--------------------------------------|-----|----------|
| <b>Test Step Name:</b>                                    |       | CMsrvcRq                                         |                                      |     |          |
| <b>Group:</b>                                             |       | GSM_L3_MS_v4180/Miscellaneous/                   |                                      |     |          |
| <b>Objective:</b>                                         |       |                                                  |                                      |     |          |
| <b>Default:</b>                                           |       | OtherEventsFail                                  |                                      |     |          |
| Nr                                                        | Label | Behaviour Description                            | CRef                                 | V   | Comments |
| 1                                                         |       | L?DL_DatInCmsRq                                  | CMSerDatReq(CMSerServiceReq_01)      |     | 1)       |
| 2                                                         |       | L!DL_DatRqCmsAcp                                 | CMSerAcp(TCV_ch, CMSerServiceAcp_01) |     |          |
| 3                                                         |       | L?DL_DatInSetup (TCV_Mt := DL_DatInSetup.msg.mt) | SetupRcv(SetupInd_01)                | (P) | 2)       |
| 4                                                         |       | L?DL_DatInRegister                               | Register_03(RegisterPdu_01)          | (P) | 2)       |
| 5                                                         |       | 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>               |       | GSM_L3_MS_v4180/Miscellaneous/                                      |                                                       |   |          |
| <b>Objective:</b>           |       |                                                                     |                                                       |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                     |                                                       |   |          |
| Nr                          | Label | Behaviour Description                                               | CRef                                                  | V | Comments |
| 1                           |       | (TCV_Cnt:=0)                                                        |                                                       |   |          |
| 2                           |       | REPEAT localtree UNTIL [TCV_Cnt=n]                                  |                                                       |   |          |
| <b>localtree</b>            |       |                                                                     |                                                       |   |          |
| 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 |       |                                                                                           |                                                                                                                                               |   |                         |
|-----------------------------|-------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------|
| <b>Test Step Name:</b>      |       | EstablishFacMO(t:INTEGER; comp:Component_T)                                               |                                                                                                                                               |   |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/                                                            |                                                                                                                                               |   |                         |
| <b>Objective:</b>           |       |                                                                                           |                                                                                                                                               |   |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                           |                                                                                                                                               |   |                         |
| Nr                          | Label | Behaviour Description                                                                     | CRef                                                                                                                                          | V | Comments                |
| 1                           |       | +InitCall(TCV_Service)                                                                    |                                                                                                                                               |   |                         |
| 2                           |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)          | ChReq(ChRequest_1<br>5)                                                                                                                       |   |                         |
| 3                           |       | ACTIVATE(OtherEventsFail_02)                                                              |                                                                                                                                               |   | To match ChReq retrans. |
| 4                           |       | LIDL_UdatRqImmAss                                                                         | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>TimingAdv(0))) |   |                         |
| 5                           |       | L?DL_EstInCmsRq                                                                           | CMSerReq(CMServic<br>eReq_01)                                                                                                                 |   |                         |
| 6                           |       | ACTIVATE(OtherEventsFail)                                                                 |                                                                                                                                               |   | Restore Normal default  |
| 7                           |       | LIDL_DatRqCmsAcp                                                                          | CMSerAcp(TCV_ch,<br>CMSerAcp_01)                                                                                                              |   |                         |
| 8                           |       | +RcvSetupOrEsetup(TCV_Setup_mo,<br>TCV_Esetup, TCV_Ecall)                                 |                                                                                                                                               |   |                         |
| 9                           |       | LIDL_DatRqCallProc                                                                        | CallProc(TCV_ch,<br>TCV_CallProc)                                                                                                             |   |                         |
| 10                          |       | +AssCmdGen(TCV_cellid,<br>TCV_ChRate, TSPX_TmSlitDef,<br>TSPX_TscDef,<br>TSPX_TCHHSubDef) |                                                                                                                                               |   |                         |
| 11                          |       | +AssCh_complete(TCV_ch,<br>TCV_chTch, TCV_AssCmd)                                         |                                                                                                                                               |   |                         |
| 12                          |       | LIDL_DatRqAlert                                                                           | AlertSnd(TCV_chTch,<br>Alerting_01(TCV_TI))                                                                                                   |   |                         |
| 13                          |       | LIDL_DatRqConn START<br>T_dly(t), START<br>T_dly1(10000)                                  | ConnSnd(TCV_chTch<br>,<br>Connect_05(TCV_TI,<br>facilityIEtsndiei(<br>comp)))                                                                 |   | 1.                      |
| 14                          |       | +AOC_CHK_FAC(TCV_TI0<br>)                                                                 |                                                                                                                                               |   |                         |
| <b>Detailed Comments:</b>   |       | 1. To send Facility IE of ForwardChargeAdvice - comp.                                     |                                                                                                                                               |   |                         |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                             |      |   |                                                                                                                                  |
|-----------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Step Name:</b>      |       | FnArith(fn, fn1:FN)                                                                                                                                                                                                                                                                                                                                                                                         |      |   |                                                                                                                                  |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/                                                                                                                                                                                                                                                                                                                                                                              |      |   |                                                                                                                                  |
| <b>Objective:</b>           |       |                                                                                                                                                                                                                                                                                                                                                                                                             |      |   |                                                                                                                                  |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                                                                                                             |      |   |                                                                                                                                  |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                       | CRef | V | Comments                                                                                                                         |
| 1                           |       | (TCV_Cnt1 := (51 * ((BIT_TO_INT(TCV_Fn.t3) -<br>BIT_TO_INT(TCV_Fn.t2) + 26) MOD 26)) +<br>BIT_TO_INT(TCV_Fn.t3) + (1326 *<br>BIT_TO_INT(TCV_Fn.t1_))), TCV_Cnt2 := (51<br>* ((BIT_TO_INT(TCV_Fn1.t3) -<br>BIT_TO_INT(TCV_Fn1.t2) + 26) MOD 26)) +<br>BIT_TO_INT(TCV_Fn1.t3) + (1326 *<br>BIT_TO_INT(TCV_Fn1.t1_))), TCV_K := ((TCV_Cnt2 -<br>TCV_Cnt1 + 42432) MOD 42432), TCV_Time :=<br>TCV_K * 120 / 26) |      |   | GSM 04.08 section<br>10.5.2.30.<br>TCV_K stores the frame<br>number difference.<br>TCV_Time stores the<br>time difference in ms. |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                                                                                                                                                                             |      |   |                                                                                                                                  |

| Test Step Dynamic Behaviour |       |                                             |                                       |     |          |
|-----------------------------|-------|---------------------------------------------|---------------------------------------|-----|----------|
| <b>Test Step Name:</b>      |       | IdentityRequest(par_int:INTEGER; par_mi:MI) |                                       |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/              |                                       |     |          |
| <b>Objective:</b>           |       |                                             |                                       |     |          |
| <b>Default:</b>             |       | OtherEventsFail                             |                                       |     |          |
| Nr                          | Label | Behaviour Description                       | CRef                                  | V   | Comments |
| 1                           |       | +ltree_idrequest                            |                                       |     |          |
| 2                           |       | L?DL_DatInIdRes                             | IDRes(IDResponse_30(par_mi))          | (P) |          |
|                             |       | <b>ltree_idrequest</b>                      |                                       |     |          |
| 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> GSM_L3_MS_v4180/Miscellaneous/                                                |       |                                                                                                                                     |                                                                                                                                     |     |                                       |                        |
| <b>Objective:</b>                                                                           |       |                                                                                                                                     |                                                                                                                                     |     |                                       |                        |
| <b>Default:</b> OtherEventsFail                                                             |       |                                                                                                                                     |                                                                                                                                     |     |                                       |                        |
| Nr                                                                                          | Label | Behaviour Description                                                                                                               | CRef                                                                                                                                | V   | Comments                              |                        |
| 1                                                                                           |       | [(sim_rmvd) AND(TSPC_SIMRmv)<br>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)<br>OR(NOT TSPC_DetachOnSIMRmv)) AND(NOT<br>TSPC_SwitchOnOff) AND(NOT<br>TSPC_DetachOnPwrDn)]] |                                                                                                                                     |     |                                       |                        |
| 11                                                                                          |       | (TCV_Null := OO_PowerUp())                                                                                                          |                                                                                                                                     |     | Restore power source                  |                        |
| 12                                                                                          |       | <b>ltree_imsiattach</b><br>L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn)                      | ChReq(ChRequest_0<br>9)                                                                                                             |     | To match ChReq retrans.               |                        |
| 13                                                                                          |       | ACTIVATE(OtherEventsFail_02)                                                                                                        |                                                                                                                                     |     |                                       |                        |
| 14                                                                                          |       | LIDL_UdatRqImmss                                                                                                                    | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>ta)) |     |                                       |                        |
| 15                                                                                          |       | L?DL_EstInLupRq                                                                                                                     | LocUp(TCV_ch,<br>LocUpdtReq_31(par_<br>mi, mcc, mnc,<br>TCV_lac,<br>C_imsi_attach,<br>TCV_cksn))                                    | (P) |                                       |                        |
| 16                                                                                          |       | ACTIVATE(OtherEventsFail)                                                                                                           |                                                                                                                                     |     |                                       | Restore Normal default |
| 17                                                                                          |       | LIDL_DatRqLupAcp                                                                                                                    | LocAcp(TCV_ch,<br>LocUpdtAcp(mcc,<br>mnc, TCV_lac))                                                                                 |     |                                       | No MI                  |
| 18                                                                                          |       | +ChanRel(TCV_ch)                                                                                                                    |                                                                                                                                     |     |                                       |                        |

Detailed Comments:

| Test Step Dynamic Behaviour |       |                                                                                                                                      |                                                                                                                                     |     |                                       |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----|---------------------------------------|
| <b>Test Step Name:</b>      |       | ImsiAttachIni(par_mi:MI; ta:TA; mcc, mnc:OCTETSTRING; sim_rmvd:BOOLEAN)                                                              |                                                                                                                                     |     |                                       |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/                                                                                                       |                                                                                                                                     |     |                                       |
| <b>Objective:</b>           |       |                                                                                                                                      |                                                                                                                                     |     |                                       |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                      |                                                                                                                                     |     |                                       |
| Nr                          | Label | Behaviour Description                                                                                                                | CRef                                                                                                                                | V   | Comments                              |
| 1                           |       | [(sim_rmvd) AND(TSPC_SIMRmv)                                                                                                         |                                                                                                                                     |     | SIM has been removed during the test. |
| 2                           |       | AND(TSPC_DetachOnSIMRmv)]                                                                                                            |                                                                                                                                     |     |                                       |
| 3                           |       | (TCV_Null := OO_SIMIns())                                                                                                            |                                                                                                                                     |     |                                       |
| 4                           |       | +ltree_imsiattachIni                                                                                                                 |                                                                                                                                     |     |                                       |
| 5                           |       | [TSPC_SwitchOnOff]                                                                                                                   |                                                                                                                                     |     |                                       |
| 6                           |       | (TCV_Null := OO_SwitchOn())                                                                                                          |                                                                                                                                     |     |                                       |
| 7                           |       | +ltree_imsiattachIni                                                                                                                 |                                                                                                                                     |     |                                       |
| 8                           |       | [TSPC_DetachOnPwrDn]                                                                                                                 |                                                                                                                                     |     |                                       |
| 9                           |       | (TCV_Null := OO_PowerUp())                                                                                                           |                                                                                                                                     |     |                                       |
| 10                          |       | +ltree_imsiattachIni                                                                                                                 |                                                                                                                                     |     |                                       |
| 11                          |       | [[((NOT sim_rmvd) OR(NOT TSPC_SIMRmv) OR(NOT TSPC_DetachOnSIMRmv)) AND(NOT TSPC_SwitchOnOff) AND(NOT TSPC_DetachOnPwrDn)]]           |                                                                                                                                     |     | Restore power source                  |
| 12                          |       | (TCV_Null := OO_PowerUp())                                                                                                           |                                                                                                                                     |     | Restore power source                  |
| 12                          |       | <b>ltree_imsiattachIni</b><br>L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn) START<br>T_dly(15000) | ChReq(ChRequest_0<br>9)                                                                                                             |     | To match ChReq retrans.               |
| 13                          |       | ACTIVATE(OtherEventsFail_02)                                                                                                         |                                                                                                                                     |     |                                       |
| 14                          |       | LIDL_UdatRqImmass                                                                                                                    | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>ta)) |     |                                       |
| 15                          |       | L?DL_EstInLupRq                                                                                                                      | LocUp(TCV_ch,<br>LocUpdtReq_31(par_<br>mi, mcc, mnc,<br>TCV_lac,<br>C_imsi_attach,<br>TCV_cksnn))                                   | (P) |                                       |
| 16                          |       | ACTIVATE(OtherEventsFail)                                                                                                            |                                                                                                                                     |     | Restore Normal default                |
| <b>Detailed Comments:</b>   |       | The test step is called 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> ImsiAttachNoReaction(par_int: INTEGER; sim_rmvd:BOOLEAN) |       |                                                                                                                                                           |      |   |                                       |                      |
| <b>Group:</b> GSM_L3_MS_v4180/Miscellaneous/                                    |       |                                                                                                                                                           |      |   |                                       |                      |
| <b>Objective:</b>                                                               |       |                                                                                                                                                           |      |   |                                       |                      |
| <b>Default:</b> OtherEventsFail                                                 |       |                                                                                                                                                           |      |   |                                       |                      |
| Nr                                                                              | Label | Behaviour Description                                                                                                                                     | CRef | V | Comments                              |                      |
| 1                                                                               |       | [(sim_rmvd) AND(TSPC_SIMRmv)<br>AND(TSPC_DetachOnSIMRmv)]                                                                                                 |      |   | SIM has been removed during the test. |                      |
| 2                                                                               |       | (TCV_Null := OO_SIMIns())                                                                                                                                 |      |   |                                       |                      |
| 3                                                                               |       | +NoReaction(par_int)                                                                                                                                      |      |   |                                       |                      |
| 4                                                                               |       | [TSPC_SwitchOnOff]                                                                                                                                        |      |   |                                       |                      |
| 5                                                                               |       | (TCV_Null := OO_SwitchOn())                                                                                                                               |      |   |                                       |                      |
| 6                                                                               |       | +NoReaction(par_int)                                                                                                                                      |      |   |                                       |                      |
| 7                                                                               |       | [TSPC_DetachOnPwrDn]                                                                                                                                      |      |   |                                       |                      |
| 8                                                                               |       | (TCV_Null := OO_PowerUp())                                                                                                                                |      |   |                                       | Restore power source |
| 9                                                                               |       | +NoReaction(par_int)                                                                                                                                      |      |   |                                       |                      |
| 10                                                                              |       | (((NOT sim_rmvd) OR(NOT TSPC_SIMRmv)<br>OR((TSPC_SIMRmv) AND(NOT<br>TSPC_DetachOnSIMRmv))) AND(NOT<br>TSPC_SwitchOnOff) AND(NOT<br>TSPC_DetachOnPwrDn)))] |      |   |                                       |                      |
| 11                                                                              |       | (TCV_Null := OO_PowerUp())                                                                                                                                |      |   |                                       | Restore power source |
| <b>Detailed Comments:</b>                                                       |       |                                                                                                                                                           |      |   |                                       |                      |

| Test Step Dynamic Behaviour                                                                                                                                               |       |                                                                                                                                             |                                                                                                                            |     |                          |                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----|--------------------------|------------------------|
| <b>Test Step Name:</b> ImsiDetach(par_mi:MI; ta:TA; sim_rmvd:BOOLEAN)                                                                                                     |       |                                                                                                                                             |                                                                                                                            |     |                          |                        |
| <b>Group:</b> GSM_L3_MS_v4180/Miscellaneous/                                                                                                                              |       |                                                                                                                                             |                                                                                                                            |     |                          |                        |
| <b>Objective:</b>                                                                                                                                                         |       |                                                                                                                                             |                                                                                                                            |     |                          |                        |
| <b>Default:</b> OtherEventsFail                                                                                                                                           |       |                                                                                                                                             |                                                                                                                            |     |                          |                        |
| Nr                                                                                                                                                                        | Label | Behaviour Description                                                                                                                       | CRef                                                                                                                       | V   | Comments                 |                        |
| 1                                                                                                                                                                         |       | [(sim_rmvd) AND(TSPC_SIMRmv)<br>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)<br>OR(NOT TSPC_DetachOnSIMRmv)) AND(NOT<br>TSPC_SwitchOnOff) AND(NOT<br>TSPC_DetachOnPwrDn)))]         |                                                                                                                            |     |                          |                        |
| 11                                                                                                                                                                        |       | (TCV_Null := OO_PowerDown())                                                                                                                |                                                                                                                            |     |                          | Remove power source    |
| 12                                                                                                                                                                        |       | <b>ltree_imsidetach</b><br>L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)<br>ACTIVATE(OtherEventsFail_02) | ChReq(ChRequest_02)                                                                                                        |     | To match ChReq retrans.  |                        |
| 13                                                                                                                                                                        |       | LIDL_UdatRqImm                                                                                                                              |                                                                                                                            |     |                          |                        |
| 14                                                                                                                                                                        |       |                                                                                                                                             | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV_Rr, TCV_Fn,<br>TSPX_SDCH4SubDef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>ta)) |     |                          |                        |
| 15                                                                                                                                                                        |       | L?DL_EstInImsidIn                                                                                                                           | ImsiDet(ImsiDetach_30(par_mi))                                                                                             | (P) |                          |                        |
| 16                                                                                                                                                                        |       | ACTIVATE(OtherEventsFail)                                                                                                                   |                                                                                                                            |     |                          |                        |
| 17                                                                                                                                                                        |       | +ChanRel(TCV_ch)                                                                                                                            |                                                                                                                            |     |                          | Restore normal default |
| <b>Detailed Comments:</b> 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>               |       | GSM_L3_MS_v4180/Miscellaneous/                                                                                                       |      |   |                          |
| <b>Objective:</b>           |       |                                                                                                                                      |      |   |                          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                      |      |   |                          |
| Nr                          | Label | Behaviour Description                                                                                                                | CRef | V | Comments                 |
| 1                           |       | [(sim_rmvd) AND(TSPC_SIMRmv)                                                                                                         |      |   | SIM needs to be removed. |
| 2                           |       | AND(TSPC_DetachOnSIMRmv)]                                                                                                            |      |   |                          |
| 3                           |       | (TCV_Null :=OO_SIMRmv())                                                                                                             |      |   |                          |
| 4                           |       | +NoReaction(par_int)                                                                                                                 |      |   |                          |
| 5                           |       | [TSPC_SwitchOnOff]                                                                                                                   |      |   |                          |
| 6                           |       | (TCV_Null := OO_SwitchOff())                                                                                                         |      |   |                          |
| 7                           |       | +NoReaction(par_int)                                                                                                                 |      |   |                          |
| 8                           |       | [TSPC_DetachOnPwrDn]                                                                                                                 |      |   |                          |
| 9                           |       | (TCV_Null := OO_PowerDown())                                                                                                         |      |   |                          |
| 10                          |       | +NoReaction(par_int)                                                                                                                 |      |   |                          |
| 11                          |       | [[((NOT sim_rmvd) OR(NOT TSPC_SIMRmv)                                                                                                |      |   | Remove power source      |
|                             |       | OR((TSPC_SIMRmv) AND(NOT TSPC_DetachOnSIMRmv))] AND(NOT TSPC_SwitchOnOff) AND(NOT TSPC_DetachOnPwrDn))] (TCV_Null := OO_PowerDown()) |      |   |                          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                      |      |   |                          |

| Test Step Dynamic Behaviour                                               |       |                                                                                                                                           |      |   |          |
|---------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>                                                    |       | InCallModi1(srv:SERVICES)                                                                                                                 |      |   |          |
| <b>Group:</b>                                                             |       | GSM_L3_MS_v4180/Miscellaneous/                                                                                                            |      |   |          |
| <b>Objective:</b>                                                         |       | MMI action to initiate in-call modification to the basic service specified.                                                               |      |   |          |
| <b>Default:</b>                                                           |       | OtherEvents                                                                                                                               |      |   |          |
| <b>Comments:</b>                                                          |       | TCV_Setup_mo, TCV_CallProc have been initialised by the calling tree.                                                                     |      |   |          |
| Nr                                                                        | Label | Behaviour Description                                                                                                                     | CRef | V | Comments |
| 1                                                                         |       | (TCV_Res := OO_InCallModi(srv), TCV_Bcap2 := OC_Bcap(TCV_Setup_mo, TCV_CallProc, 2), TCV_Bcap1 := OC_Bcap(TCV_Setup_mo, TCV_CallProc, 1)) |      |   | 1.       |
| <b>Detailed Comments:</b> 1. MMI action to initiate in-call modification. |       |                                                                                                                                           |      |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                |                                                            |     |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----|----------|
| <b>Test Step Name:</b>      |       | MM_LUP(newmi:MI; lup_mi:MI; mcc, oldmnc, newmnc, oldlac, newlac:OCTETSTRING; locup:B_2; cksn:BITSTRING; ta:TA) |                                                            |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/                                                                                 |                                                            |     |          |
| <b>Objective:</b>           |       |                                                                                                                |                                                            |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                |                                                            |     |          |
| Nr                          | Label | Behaviour Description                                                                                          | CRef                                                       | V   | Comments |
| 1                           |       | +MM_LupInit(lup_mi, mcc, oldmnc, oldlac, locup, cksn, ta)                                                      |                                                            |     |          |
| 2                           |       | L!DL_DatRqLupAcp                                                                                               | LocAcp(TCV_ch, LocUpdtAcp_01(new mi, mcc, newmnc, newlac)) |     |          |
| 3                           |       | L?DL_DatInTmsireCom                                                                                            | TmsiReallocCmp(TC V_ch)                                    | (P) |          |
| 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> GSM_L3_MS_v4180/Miscellaneous/                                                                                |       |                                                        |                                                         |     |          |
| <b>Objective:</b>                                                                                                           |       |                                                        |                                                         |     |          |
| <b>Default:</b> OtherEventsFail                                                                                             |       |                                                        |                                                         |     |          |
| Nr                                                                                                                          | Label | Behaviour Description                                  | CRef                                                    | V   | Comments |
| 1                                                                                                                           |       | +MM_LupInit(lup_mi, mcc, mnc, oldlac, locup, cksn, ta) |                                                         |     |          |
| 2                                                                                                                           |       | L!DL_DatRqLupAcp                                       | LocAcp(TCV_ch, LocUpdtAcp_01(new mi, mcc, mnc, newlac)) |     |          |
| 3                                                                                                                           |       | L?DL_DatInTmsireCom                                    | TmsiReallocCmp(TC V_ch)                                 | (P) |          |
| 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> GSM_L3_MS_v4180/Miscellaneous/                                 |       |                         |                                           |     |            |
| <b>Objective:</b>                                                            |       |                         |                                           |     |            |
| <b>Default:</b> OtherEventsFail                                              |       |                         |                                           |     |            |
| Nr                                                                           | Label | Behaviour Description   | CRef                                      | V   | Comments   |
| 1                                                                            |       | +MM_LupInit2(locup, ta) |                                           |     |            |
| 2                                                                            |       | L!DL_DatRqLupAcp        | LocAcp(TCV_ch, LocUpdtAcp(mcc, mnc, lac)) | (P) | without MI |
| 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> GSM_L3_MS_v4180/Miscellaneous/                                                                                                 |       |                                                     |                   |   |          |
| <b>Objective:</b>                                                                                                                            |       |                                                     |                   |   |          |
| <b>Default:</b> OtherEventsFail                                                                                                              |       |                                                     |                   |   |          |
| Nr                                                                                                                                           | Label | Behaviour Description                               | CRef              | V | 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:BITSTRING; ta:TA)                                                                  |                                                                    |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/                                                                                                                         |                                                                    |     |          |
| <b>Objective:</b>           |       | To initialise Location Update and repeated Authentication procedures till T3210 times out.                                                             |                                                                    |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                        |                                                                    |     |          |
| Nr                          | Label | Behaviour Description                                                                                                                                  | CRef                                                               | V   | Comments |
| 1                           |       | +MM_LupInit(par_mi, mcc, mnc, lac, locup, cksn, ta)                                                                                                    |                                                                    |     |          |
| 2                           |       | START T_dly(C_T_T3210)                                                                                                                                 |                                                                    |     |          |
| 3                           |       | (TCV_Cntstart := FALSE)                                                                                                                                |                                                                    |     |          |
| 4                           |       | REPEAT ltree_auth UNTIL [TCV_Cntstart]                                                                                                                 |                                                                    |     |          |
|                             |       | <b>ltree_auth</b>                                                                                                                                      |                                                                    |     |          |
| 5                           |       | +ltree_rcvRel                                                                                                                                          |                                                                    |     | 2.       |
| 6                           |       | L!DL_DatRqAuthRq                                                                                                                                       | AuthReq(TCV_ch,<br>AuthRequest(TSPX_<br>CKSNDef,<br>TSPX_RANDDef)) |     |          |
| 7                           |       | L?DL_DatInAuthRes (TCV_Sres :=<br>DL_DatInAuthRes.msg.sres)                                                                                            | AuthRes(AuthRespon<br>se)                                          |     |          |
| 8                           |       | (TCV_Res := OC_ChkSRES(TCV_Sres,<br>TSPX_Ki, TSPX_RANDDef))                                                                                            |                                                                    |     |          |
| 9                           |       | [NOT TCV_Res]                                                                                                                                          |                                                                    | F   |          |
| 10                          |       | [TCV_Res]                                                                                                                                              |                                                                    | (P) |          |
| 11                          |       | ?TIMEOUT T_dly                                                                                                                                         |                                                                    |     |          |
| 12                          |       | L?DL_DatInAuthRes                                                                                                                                      | AuthRes(AuthRespon<br>se)                                          |     |          |
| 13                          |       | +ltree_rcvRel                                                                                                                                          |                                                                    |     | 2.       |
| 14                          |       | +ltree_rcvRel                                                                                                                                          |                                                                    |     | 2.       |
|                             |       | <b>ltree_rcvRel</b>                                                                                                                                    |                                                                    |     |          |
| 15                          |       | L?DL_Relln                                                                                                                                             | DLRellnd_01                                                        |     | 2.       |
| 16                          |       | (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.<br>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: BITSTRING; ta:TA) |                                                              |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/                                                         |                                                              |     |          |
| <b>Objective:</b>           |       |                                                                                        |                                                              |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                        |                                                              |     |          |
| Nr                          | Label | Behaviour Description                                                                  | CRef                                                         | V   | Comments |
| 1                           |       | +MM_LupInit2(locup, ta)                                                                |                                                              |     |          |
| 2                           |       | +Authentication(TCV_ch, cksn, TSPX_RANDDef)                                            |                                                              |     |          |
| 3                           |       | LIDL_DatRqLupAcp                                                                       | LocAcp(TCV_ch,<br>LocUpdtAcp_01(newt<br>msi, mcc, mnc, lac)) |     |          |
| 4                           |       | L?DL_DatInTmsireCom                                                                    | TmsiReallocCmp(TC<br>V_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: BITSTRING; ta:TA)                     |       |                                                             |                                                           |     |          |
| <b>Group:</b> GSM_L3_MS_v4180/Miscellaneous/                                                                                                                          |       |                                                             |                                                           |     |          |
| <b>Objective:</b>                                                                                                                                                     |       |                                                             |                                                           |     |          |
| <b>Default:</b> OtherEventsFail                                                                                                                                       |       |                                                             |                                                           |     |          |
| Nr                                                                                                                                                                    | Label | Behaviour Description                                       | CRef                                                      | V   | Comments |
| 1                                                                                                                                                                     |       | +MM_LupInIt3(lup_mi, mcc, mnc, old_lac, locup, old_cks, ta) |                                                           |     | 1.       |
| 2                                                                                                                                                                     |       | +Authentication(TCV_ch, new_cks, TSPX_RANDDef)              |                                                           |     |          |
| 3                                                                                                                                                                     |       | L!DL_DatRqLupAcp                                            | LocAcp(TCV_ch, LocUpdtAcp_01(newtmsi, mcc, mnc, new_lac)) |     |          |
| 4                                                                                                                                                                     |       | L?DL_DatInTmsireCom                                         | TmsiReallocCmp(TCV_ch)                                    | (P) |          |
| <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                                                                                                  |       |                                                                              |                                                                                                              |     |                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------|
| <b>Test Step Name:</b> MM_LUP_imsi(duration: INTEGER; newmi, lup_mi:MI; mcc, mnc, lac, newlac:OCTETSTRING; locup:B_2; ta:TA) |       |                                                                              |                                                                                                              |     |                                                                                       |
| <b>Group:</b> GSM_L3_MS_v4180/Miscellaneous/                                                                                 |       |                                                                              |                                                                                                              |     |                                                                                       |
| <b>Objective:</b>                                                                                                            |       |                                                                              |                                                                                                              |     |                                                                                       |
| <b>Default:</b> OtherEventsFail                                                                                              |       |                                                                              |                                                                                                              |     |                                                                                       |
| Nr                                                                                                                           | Label | Behaviour Description                                                        | CRef                                                                                                         | V   | Comments                                                                              |
| 1                                                                                                                            |       | (TCV_Time := (duration + ((20 * duration) / 100)))                           |                                                                                                              |     | To match ChReq retrans.<br><br><br><br><br><br><br><br><br><br>Restore Normal default |
| 2                                                                                                                            |       | START T_dly(TCV_Time)                                                        |                                                                                                              |     |                                                                                       |
| 3                                                                                                                            |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn) | ChReq(ChRequest_09)                                                                                          |     |                                                                                       |
| 4                                                                                                                            |       | READTIMER T_dly(TCV_Time), CANCEL T_dly                                      |                                                                                                              |     |                                                                                       |
| 5                                                                                                                            |       | ACTIVATE(OtherEventsFail_02)                                                 | 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_cks))                                          |     |                                                                                       |
| 7                                                                                                                            |       | ACTIVATE(OtherEventsFail)                                                    |                                                                                                              |     |                                                                                       |
| 8                                                                                                                            |       | L!DL_DatRqLupAcp                                                             | LocAcp(TCV_ch, LocUpdtAcp_01(newmi, mcc, mnc, newlac))                                                       |     |                                                                                       |
| 9                                                                                                                            |       | [TCV_Time <= duration]                                                       |                                                                                                              | (P) |                                                                                       |
| 10                                                                                                                           |       | [TCV_Time > duration]                                                        |                                                                                                              | (F) |                                                                                       |
| 11                                                                                                                           |       | ?TIMEOUT T_dly                                                               |                                                                                                              | (F) |                                                                                       |
| <b>Detailed Comments:</b>                                                                                                    |       |                                                                              |                                                                                                              |     |                                                                                       |

| Test Step Dynamic Behaviour |       |                                                                                    |                                                                                                              |     |                         |
|-----------------------------|-------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| <b>Test Step Name:</b>      |       | MM_LuplNit(par_mi:MI; mcc, mnc, lac:OCTETSTRING; locup:B_2; cksn:BITSTRING; ta:TA) |                                                                                                              |     |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/                                                     |                                                                                                              |     |                         |
| <b>Objective:</b>           |       |                                                                                    |                                                                                                              |     |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                    |                                                                                                              |     |                         |
| Nr                          | Label | Behaviour Description                                                              | CRef                                                                                                         | V   | Comments                |
| 1                           |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)   | ChReq(ChRequest_09)                                                                                          |     | To match ChReq retrans. |
| 2                           |       | ACTIVATE(OtherEventsFail_02)                                                       |                                                                                                              |     |                         |
| 3                           |       | LIDL_UdatRqImm                                                                     | 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))                                             | (P) |                         |
| 5                           |       | ACTIVATE(OtherEventsFail)                                                          |                                                                                                              |     | Restore Normal default  |
| <b>Detailed Comments:</b>   |       |                                                                                    |                                                                                                              |     |                         |

| Test Step Dynamic Behaviour |       |                                                                                  |                                                                                                              |   |                         |
|-----------------------------|-------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---|-------------------------|
| <b>Test Step Name:</b>      |       | MM_LuplNit2(locup:B_2; ta:TA)                                                    |                                                                                                              |   |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/                                                   |                                                                                                              |   |                         |
| <b>Objective:</b>           |       |                                                                                  |                                                                                                              |   |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                  |                                                                                                              |   |                         |
| Nr                          | Label | Behaviour Description                                                            | CRef                                                                                                         | V | Comments                |
| 1                           |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn) | ChReq(ChRequest_09)                                                                                          |   | To match ChReq retrans. |
| 2                           |       | ACTIVATE(OtherEventsFail_02)                                                     |                                                                                                              |   |                         |
| 3                           |       | LIDL_UdatRqImm                                                                   | 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_LupInit3(par_mi:MI; mcc, mnc, lac:OCTETSTRING; locup:B_2; cksn:BITSTRING; ta:TA) |       |                                                                                                  |                                                                                                                             |     |                         |
| <b>Group:</b> GSM_L3_MS_v4180/Miscellaneous/                                                               |       |                                                                                                  |                                                                                                                             |     |                         |
| <b>Objective:</b>                                                                                          |       |                                                                                                  |                                                                                                                             |     |                         |
| <b>Default:</b> OtherEventsFail                                                                            |       |                                                                                                  |                                                                                                                             |     |                         |
| Nr                                                                                                         | Label | Behaviour Description                                                                            | CRef                                                                                                                        | V   | Comments                |
| 1                                                                                                          |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)<br>CANCEL T_dly | ChReq(ChRequest_09)                                                                                                         |     | To match ChReq retrans. |
| 2                                                                                                          |       | ACTIVATE(OtherEventsFail_02)                                                                     |                                                                                                                             |     |                         |
| 3                                                                                                          |       | LIDL_UdatRqImm                                                                                   | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV_Rr, TCV_Fn,<br>TSPX_SDCCH4SubDef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>ta)) |     |                         |
| 4                                                                                                          |       | L?DL_EstInLupRq                                                                                  | LocUp(TCV_ch,<br>LocUpdtReq_31(par_mi, mcc, mnc, lac,<br>locup, cksn))                                                      | (P) |                         |
| 5                                                                                                          |       | ACTIVATE(OtherEventsFail)                                                                        |                                                                                                                             |     | Restore Normal default  |
| <b>Detailed Comments:</b>                                                                                  |       |                                                                                                  |                                                                                                                             |     |                         |

| Test Step Dynamic Behaviour                          |       |                                                                                                  |                                                                                                                             |   |                         |
|------------------------------------------------------|-------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|---|-------------------------|
| <b>Test Step Name:</b> MM_LupInit4(locup:B_2; ta:TA) |       |                                                                                                  |                                                                                                                             |   |                         |
| <b>Group:</b> GSM_L3_MS_v4180/Miscellaneous/         |       |                                                                                                  |                                                                                                                             |   |                         |
| <b>Objective:</b>                                    |       |                                                                                                  |                                                                                                                             |   |                         |
| <b>Default:</b> OtherEventsFail                      |       |                                                                                                  |                                                                                                                             |   |                         |
| Nr                                                   | Label | Behaviour Description                                                                            | CRef                                                                                                                        | V | Comments                |
| 1                                                    |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)<br>CANCEL T_dly | ChReq(ChRequest_09)                                                                                                         |   | To match ChReq retrans. |
| 2                                                    |       | ACTIVATE(OtherEventsFail_02)                                                                     |                                                                                                                             |   |                         |
| 3                                                    |       | LIDL_UdatRqImm                                                                                   | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV_Rr, TCV_Fn,<br>TSPX_SDCCH4SubDef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>ta)) |   |                         |
| 4                                                    |       | L?DL_EstInLupRq                                                                                  | LocUp(TCV_ch,<br>LocUpdtReq_01(locup))                                                                                      |   |                         |
| 5                                                    |       | ACTIVATE(OtherEventsFail)                                                                        |                                                                                                                             |   | Restore Normal default  |
| <b>Detailed Comments:</b>                            |       |                                                                                                  |                                                                                                                             |   |                         |

| Test Step Dynamic Behaviour |       |                                                                                  |                                                                                                                                     |     |                         |
|-----------------------------|-------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| <b>Test Step Name:</b>      |       | MM_LuplNit5(locup:B_2; ta:TA)                                                    |                                                                                                                                     |     |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/                                                   |                                                                                                                                     |     |                         |
| <b>Objective:</b>           |       |                                                                                  |                                                                                                                                     |     |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                  |                                                                                                                                     |     |                         |
| Nr                          | Label | Behaviour Description                                                            | CRef                                                                                                                                | V   | Comments                |
| 1                           |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn) | ChReq(ChRequest_0<br>2)                                                                                                             |     | To match ChReq retrans. |
| 2                           |       | ACTIVATE(OtherEventsFail_02)                                                     |                                                                                                                                     |     |                         |
| 3                           |       | LIDL_UdatRqImm                                                                   | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>ta)) |     |                         |
| 4                           |       | L?DL_EstInLupRq                                                                  | LocUp(TCV_ch,<br>LocUpdtReq_01(locu<br>p))                                                                                          | (P) |                         |
| 5                           |       | ACTIVATE(OtherEventsFail)                                                        |                                                                                                                                     |     | Restore Normal default  |
| <b>Detailed Comments:</b>   |       |                                                                                  |                                                                                                                                     |     |                         |

| Test Step Dynamic Behaviour |       |                                                                                  |                                                                                                                                     |     |                         |
|-----------------------------|-------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| <b>Test Step Name:</b>      |       | MM_LuplNit6(locup:B_2; ta:TA)                                                    |                                                                                                                                     |     |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/                                                   |                                                                                                                                     |     |                         |
| <b>Objective:</b>           |       |                                                                                  |                                                                                                                                     |     |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                  |                                                                                                                                     |     |                         |
| Nr                          | Label | Behaviour Description                                                            | CRef                                                                                                                                | V   | Comments                |
| 1                           |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn) | ChReq(ChRequest_0<br>2)                                                                                                             |     | To match ChReq retrans. |
| 2                           |       | ACTIVATE(OtherEventsFail_02)                                                     |                                                                                                                                     |     |                         |
| 3                           |       | LIDL_UdatRqImm                                                                   | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>ta)) |     |                         |
| 4                           |       | L?DL_EstInLupRq                                                                  | LocUp(TCV_ch,<br>LocUpdtReq_01(locu<br>p))                                                                                          | (P) |                         |
| 5                           |       | ACTIVATE(OtherEventsFail)                                                        |                                                                                                                                     |     | Restore Normal default  |
| <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;<br>locup:B_2; lup_cks: BITSTRING; ta:TA) |                                                                    |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/                                                                                                  |                                                                    |   |          |
| <b>Objective:</b>           |       |                                                                                                                                 |                                                                    |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                 |                                                                    |   |          |
| Nr                          | Label | Behaviour Description                                                                                                           | CRef                                                               | V | Comments |
| 1                           |       | +MM_LuplNit(expectedlup_mi, mcc, mnc, lup_lac,<br>locup, lup_cks, ta)                                                           |                                                                    |   |          |
| 2                           |       | +TmsiReallocation(newtmsi, mcc, mnc, lac)                                                                                       |                                                                    |   |          |
| 3                           |       | LIDL_DatRqLupAcp                                                                                                                | LocAcp(TCV_ch,<br>LocUpdtAcp_01(MiMs<br>i_omit, mcc, mnc,<br>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> GSM_L3_MS_v4180/Miscellaneous/                                   |       |                             |                                                 |     |          |
| <b>Objective:</b>                                                              |       |                             |                                                 |     |          |
| <b>Default:</b> OtherEventsFail                                                |       |                             |                                                 |     |          |
| Nr                                                                             | Label | Behaviour Description       | CRef                                            | V   | Comments |
| 1                                                                              |       | START T_dly(C_T_T3212min)   |                                                 |     |          |
| 2                                                                              |       | ?TIMEOUT T_dly              |                                                 | (P) |          |
| 3                                                                              |       | START T_dly(C_T_T3212dif*2) |                                                 |     |          |
| 4                                                                              |       | +MM_LupInit4(locup, ta)     |                                                 |     |          |
| 5                                                                              |       | L!DL_DatRqLupAcp            | LocAcp(TCV_ch,<br>LocUpdtAcp(mcc,<br>mnc, lac)) | (P) | no MI    |
| 6                                                                              |       | ?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> GSM_L3_MS_v4180/Miscellaneous/                                                        |       |                          |                                                 |     |             |
| <b>Objective:</b>                                                                                   |       |                          |                                                 |     |             |
| <b>Default:</b> OtherEventsFail                                                                     |       |                          |                                                 |     |             |
| Nr                                                                                                  | Label | Behaviour Description    | CRef                                            | V   | Comments    |
| 1                                                                                                   |       | START T_dly(par_timetol) |                                                 |     |             |
| 2                                                                                                   |       | +MM_LupInit4(locup, ta)  |                                                 |     |             |
| 3                                                                                                   |       | L!DL_DatRqLupAcp         | LocAcp(TCV_ch,<br>LocUpdtAcp(mcc,<br>mnc, lac)) | (P) | no MI, fop; |
| 4                                                                                                   |       | ?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: BITSTRING; ta:TA) |       |                                                        |                                                                  |     |                    |
| <b>Group:</b> GSM_L3_MS_v4180/Miscellaneous/                                                                                    |       |                                                        |                                                                  |     |                    |
| <b>Objective:</b>                                                                                                               |       |                                                        |                                                                  |     |                    |
| <b>Default:</b> OtherEventsFail                                                                                                 |       |                                                        |                                                                  |     |                    |
| Nr                                                                                                                              | Label | Behaviour Description                                  | CRef                                                             | V   | Comments           |
| 1                                                                                                                               |       | START T_dly(C_T_T3212min)                              |                                                                  |     | T3212 - 15 s       |
| 2                                                                                                                               |       | ?TIMEOUT T_dly                                         |                                                                  | (P) |                    |
| 3                                                                                                                               |       | START T_dly(C_T_T3212dif * 2)                          |                                                                  |     | 2 * 15 s tolerance |
| 4                                                                                                                               |       | +MM_LupInit3(oldmi, mcc, mnc, oldlac, locup, cksn, ta) |                                                                  |     |                    |
| 5                                                                                                                               |       | +Authentication(TCV_ch, TCV_ksn, TSPX_RANDDef)         |                                                                  |     |                    |
| 6                                                                                                                               |       | L!DL_DatRqLupAcp                                       | LocAcp(TCV_ch,<br>LocUpdtAcp_01(new<br>mi, mcc, mnc,<br>newlac)) |     |                    |
| 7                                                                                                                               |       | L?DL_DatInTmsireCom                                    | TmsiReallocCmp(TC<br>V_ch)                                       |     |                    |
| 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>               |       | GSM_L3_MS_v4180/Miscellaneous/                 |                                               |     |          |
| <b>Objective:</b>           |       |                                                |                                               |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                |                                               |     |          |
| Nr                          | Label | Behaviour Description                          | CRef                                          | V   | Comments |
| 1                           |       | START T_dly(C_T_T3212min)                      |                                               |     |          |
| 2                           |       | ?TIMEOUT T_dly                                 |                                               | (P) |          |
| 3                           |       | START T_dly(C_T_T3212dif*2)                    |                                               |     |          |
| 4                           |       | +MM_LupInit4(locup, ta)                        |                                               |     |          |
| 5                           |       | LIDL_DatRqLupRej                               | LocRej(TCV_ch,<br>LocUpdtRej_01(par_r<br>ej)) | (P) |          |
| 6                           |       | +ChanRel(TCV_ch)                               |                                               |     |          |
| 7                           |       | ?TIMEOUT T_dly                                 |                                               | (F) |          |
| <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:<br>OCTETSTRING; locup:B_2; cksn: BITSTRING; ta:TA) |                                               |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/                                                                                                    |                                               |     |          |
| <b>Objective:</b>           |       |                                                                                                                                   |                                               |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                   |                                               |     |          |
| Nr                          | Label | Behaviour Description                                                                                                             | CRef                                          | V   | Comments |
| 1                           |       | START T_dly(par_toleranz)                                                                                                         |                                               |     |          |
| 2                           |       | +MM_LupInit3(par_mi, mcc, mnc, lac, locup, cksn,<br>ta)                                                                           |                                               |     |          |
| 3                           |       | LIDL_DatRqLupRej                                                                                                                  | LocRej(TCV_ch,<br>LocUpdtRej_01(par_r<br>ej)) | (P) |          |
| 4                           |       | +ChanRel(TCV_ch)                                                                                                                  |                                               |     |          |
| 5                           |       | ?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;<br>cksn:BITSTRING; ta:TA) |      |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/                                                                                |      |     |          |
| <b>Objective:</b>           |       |                                                                                                               |      |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                               |      |     |          |
| Nr                          | Label | Behaviour Description                                                                                         | CRef | V   | Comments |
| 1                           |       | START T_dly(par_toleranz)                                                                                     |      |     |          |
| 2                           |       | +MM_LupInit3(par_mi, mcc, mnc, lac, locup, cksn,<br>ta)                                                       |      |     |          |
| 3                           |       | +ChanRel(TCV_ch)                                                                                              |      |     |          |
| 4                           |       | ?TIMEOUT T_dly                                                                                                |      | (F) |          |
| <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> GSM_L3_MS_v4180/Miscellaneous/                        |       |                         |                                               |     |          |
| <b>Objective:</b>                                                   |       |                         |                                               |     |          |
| <b>Default:</b> OtherEventsFail                                     |       |                         |                                               |     |          |
| Nr                                                                  | Label | Behaviour Description   | CRef                                          | V   | Comments |
| 1                                                                   |       | +MM_LupInit2(locup, ta) | LocRej(TCV_ch,<br>LocUpdtRej_01(par_r<br>ej)) | (P) |          |
| 2                                                                   |       | L!DL_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> GSM_L3_MS_v4180/Miscellaneous/                                                                               |       |                                                     |                                               |     |          |
| <b>Objective:</b>                                                                                                          |       |                                                     |                                               |     |          |
| <b>Default:</b> OtherEventsFail                                                                                            |       |                                                     |                                               |     |          |
| Nr                                                                                                                         | Label | Behaviour Description                               | CRef                                          | V   | Comments |
| 1                                                                                                                          |       | +MM_LupInit(par_mi, mcc, mnc, lac, locup, cksn, ta) | LocRej(TCV_ch,<br>LocUpdtRej_01(par_r<br>ej)) | (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> GSM_L3_MS_v4180/Miscellaneous/            |       |                                                                      |      |   |                          |
| <b>Objective:</b>                                       |       |                                                                      |      |   |                          |
| <b>Default:</b> OtherEventsFail                         |       |                                                                      |      |   |                          |
| Nr                                                      | Label | Behaviour Description                                                | CRef | V | Comments                 |
| 1                                                       |       | [(sim_rmvd) AND(TSPC_SIMRmv)]                                        |      |   | SIM needs to be removed. |
| 2                                                       |       | (TCV_Null :=OO_SIMRmv())                                             |      |   |                          |
| 3                                                       |       | [TSPC_SwitchOnOff]                                                   |      |   |                          |
| 4                                                       |       | (TCV_Null := OO_SwitchOff())                                         |      |   |                          |
| 5                                                       |       | [[[(NOT sim_rmvd) OR(NOT TSPC_SIMRmv)<br>AND(NOT TSPC_SwitchOnOff)]] |      |   |                          |
| 6                                                       |       | (TCV_Null := OO_PowerDown())                                         |      |   | Remove power source      |
| <b>Detailed Comments:</b>                               |       |                                                                      |      |   |                          |

| Test Step Dynamic Behaviour                            |       |                                                                      |      |   |                      |
|--------------------------------------------------------|-------|----------------------------------------------------------------------|------|---|----------------------|
| <b>Test Step Name:</b> MM_PwrOrSimOn(sim_rmvd:BOOLEAN) |       |                                                                      |      |   |                      |
| <b>Group:</b> GSM_L3_MS_v4180/Miscellaneous/           |       |                                                                      |      |   |                      |
| <b>Objective:</b>                                      |       |                                                                      |      |   |                      |
| <b>Default:</b> OtherEventsFail                        |       |                                                                      |      |   |                      |
| Nr                                                     | Label | Behaviour Description                                                | CRef | V | 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)<br>AND(NOT TSPC_SwitchOnOff)]] |      |   |                      |
| 6                                                      |       | (TCV_Null := OO_PowerUp())                                           |      |   | Restore power source |
| <b>Detailed Comments:</b>                              |       |                                                                      |      |   |                      |

| Test Step Dynamic Behaviour |       |                                                                                     |                                                                                                                                     |     |                         |
|-----------------------------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| <b>Test Step Name:</b>      |       | MM_check_ecall1(ta:TA; mi:MI)                                                       |                                                                                                                                     |     |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/                                                      |                                                                                                                                     |     |                         |
| <b>Objective:</b>           |       |                                                                                     |                                                                                                                                     |     |                         |
| <b>Default:</b>             |       | OtherEventsFail                                                                     |                                                                                                                                     |     |                         |
| Nr                          | Label | Behaviour Description                                                               | CRef                                                                                                                                | V   | Comments                |
| 1                           |       | [TSPC_Serv_TS11]                                                                    |                                                                                                                                     |     |                         |
| 2                           |       | +BasicServiceMO(C_EmgCall,<br>TSPX_EmgCallRate)                                     |                                                                                                                                     |     |                         |
| 3                           |       | +InitCall(TCV_Service)                                                              |                                                                                                                                     |     |                         |
| 4                           |       | L?DL_RacInChRq (TCV_Rr := DL_RacInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RacInChRq.fn) | ChReq(ChRequest_1<br>6)                                                                                                             |     |                         |
| 5                           |       | ACTIVATE(OtherEventsFail_02)                                                        |                                                                                                                                     |     | To match ChReq retrans. |
| 6                           |       | L!DL_UdatRqImmss                                                                    | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>ta)) |     |                         |
| 7                           |       | L?DL_EstInCmsRq                                                                     | CMSerReq(CMServic<br>eReq_05(mi))                                                                                                   |     |                         |
| 8                           |       | ACTIVATE(OtherEventsFail)                                                           |                                                                                                                                     |     | Restore Normal default  |
| 9                           |       | L!DL_DatRqCmsAcp                                                                    | CMSerAcp(TCV_ch,<br>CMServiceAcp_01)                                                                                                |     |                         |
| 10                          |       | +RcvSetupOrEsetup(TCV_Setup_m<br>o, TCV_Esetup, TCV_Ecall)                          |                                                                                                                                     |     |                         |
| 11                          |       | +ltree_check_ti_flag                                                                |                                                                                                                                     |     |                         |
| 12                          |       | L!DL_DatRqRelCmp                                                                    | RelComSnd(TCV_ch,<br>ReleaseCmp_04(TCV<br>_TI))                                                                                     | (P) |                         |
| 13                          |       | +ChanRel(TCV_ch)                                                                    |                                                                                                                                     |     |                         |
| 14                          |       | [NOT TSPC_Serv_TS11]                                                                |                                                                                                                                     |     |                         |
|                             |       | <b>ltree_check_ti_flag</b>                                                          |                                                                                                                                     |     |                         |
| 15                          |       | [TCV_TI0.ti_f = '1'B]                                                               |                                                                                                                                     | (F) |                         |
| 16                          |       | L!DL_DatRqChRel                                                                     | ChRel(TCV_ch,<br>ChRelease_01)                                                                                                      |     |                         |
| 17                          |       | L?DL_RelIn                                                                          | DLRelInd_01                                                                                                                         |     |                         |
| 18                          |       | [TCV_TI0.ti_f = '0'B]                                                               |                                                                                                                                     | (P) |                         |
| <b>Detailed Comments:</b>   |       |                                                                                     |                                                                                                                                     |     |                         |

| Test Step Dynamic Behaviour                                                                   |       |                                                                                     |                                                                                                                                     |     |                         |
|-----------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| <b>Test Step Name:</b> MM_check_ecall2(parexpected_mi: MI; parexpected_cks: BITSTRING; ta:TA) |       |                                                                                     |                                                                                                                                     |     |                         |
| <b>Group:</b> GSM_L3_MS_v4180/Miscellaneous/                                                  |       |                                                                                     |                                                                                                                                     |     |                         |
| <b>Objective:</b>                                                                             |       |                                                                                     |                                                                                                                                     |     |                         |
| <b>Default:</b> OtherEventsFail                                                               |       |                                                                                     |                                                                                                                                     |     |                         |
| Nr                                                                                            | Label | Behaviour Description                                                               | CRef                                                                                                                                | V   | Comments                |
| 1                                                                                             |       | [TSPC_Serv_TS11]                                                                    |                                                                                                                                     |     |                         |
| 2                                                                                             |       | +BasicServiceMO(C_EmgCall,<br>TSPX_EmgCallRate)                                     |                                                                                                                                     |     |                         |
| 3                                                                                             |       | +InitCall(TCV_Service)                                                              |                                                                                                                                     |     |                         |
| 4                                                                                             |       | L?DL_RaclnChRq (TCV_Rr := DL_RaclnChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaclnChRq.fn) | ChReq(ChRequest_1<br>6)                                                                                                             |     |                         |
| 5                                                                                             |       | ACTIVATE(OtherEventsFail_02)                                                        |                                                                                                                                     |     | To match ChReq retrans. |
| 6                                                                                             |       | L!DL_UdatRqlmass                                                                    | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>ta)) |     |                         |
| 7                                                                                             |       | L?DL_EstInCmsRq                                                                     | CMSerReq(CMServic<br>eReq_31(<br>parexpected_mi,<br>parexpected_cks))                                                               |     |                         |
| 8                                                                                             |       | ACTIVATE(OtherEventsFail)                                                           |                                                                                                                                     |     | Restore Normal default  |
| 9                                                                                             |       | L!DL_DatRqCmsAcp                                                                    | CMSerAcp(TCV_ch,<br>CMSerAcp_01)                                                                                                    |     |                         |
| 10                                                                                            |       | +RcvSetupOrEsetup(TCV_Setup_m<br>o, TCV_Esetup, TCV_Ecall)                          |                                                                                                                                     |     |                         |
| 11                                                                                            |       | +ltree_check_ti_flag                                                                |                                                                                                                                     |     |                         |
| 12                                                                                            |       | L!DL_DatRqRelCmp                                                                    | RelComSnd(TCV_ch,<br>ReleaseCmp_04(TCV<br>_TI))                                                                                     | (P) |                         |
| 13                                                                                            |       | +ChanRel(TCV_ch)                                                                    |                                                                                                                                     |     |                         |
| 14                                                                                            |       | [NOT TSPC_Serv_TS11]                                                                |                                                                                                                                     | (P) |                         |
| 15                                                                                            |       | <b>ltree_check_ti_flag</b><br>[TCV_TI0.ti_f = '1'B]                                 |                                                                                                                                     | (F) |                         |
| 16                                                                                            |       | L!DL_DatRqChRel                                                                     | ChRel(TCV_ch,<br>ChRelease_01)                                                                                                      |     |                         |
| 17                                                                                            |       | L?DL_RelIn                                                                          | DLRelInd_01                                                                                                                         |     |                         |
| 18                                                                                            |       | [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> GSM_L3_MS_v4180/Miscellaneous/              |       |                        |      |     |          |
| <b>Objective:</b>                                         |       |                        |      |     |          |
| <b>Default:</b> OtherEventsFail                           |       |                        |      |     |          |
| Nr                                                        | Label | Behaviour Description  | CRef | V   | Comments |
| 1                                                         |       | +InitCall(TCV_Service) |      |     |          |
| 2                                                         |       | START T_dly(par_int)   |      |     |          |
| 3                                                         |       | ?TIMEOUT T_dly         |      | (P) |          |
| <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>               |       | GSM_L3_MS_v4180/Miscellaneous/                                               |                                                         |     |          |
| <b>Objective:</b>           |       |                                                                              |                                                         |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                                              |                                                         |     |          |
| Nr                          | Label | Behaviour Description                                                        | CRef                                                    | V   | Comments |
| 1                           |       | +CCCH_group_Paging_group(ccd, TSPX_IMSI)                                     |                                                         |     |          |
| 2                           |       | +SelectPagingCh(activ_cell)                                                  |                                                         |     |          |
| 3                           |       | LIDL_UdatRqPg1Rq START<br>T_dly(par_checktime)                               | PgReq1(TCV_PgCh,<br>TCV_Pgg,<br>PgReqTp1_30(par_mi<br>) |     |          |
| 4                           |       | ?TIMEOUT T_dly                                                               |                                                         | (P) |          |
| <b>Detailed Comments:</b>   |       |                                                                              |                                                         |     |          |

| Test Step Dynamic Behaviour |       |                                |      |     |          |
|-----------------------------|-------|--------------------------------|------|-----|----------|
| <b>Test Step Name:</b>      |       | NoReaction(par_int:INTEGER)    |      |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/ |      |     |          |
| <b>Objective:</b>           |       |                                |      |     |          |
| <b>Default:</b>             |       | OtherEventsFail                |      |     |          |
| Nr                          | Label | Behaviour Description          | CRef | V   | Comments |
| 1                           |       | START T_dly(par_int)           |      |     |          |
| 2                           |       | ?TIMEOUT T_dly                 |      | (P) |          |
| <b>Detailed Comments:</b>   |       |                                |      |     |          |

| Test Step Dynamic Behaviour                   |       |                                                             |                                                          |     |          |
|-----------------------------------------------|-------|-------------------------------------------------------------|----------------------------------------------------------|-----|----------|
| <b>Test Step Name:</b>                        |       | RR_hocomp1(time_fn_fn1:INTEGER; ta:TA)                      |                                                          |     |          |
| <b>Group:</b>                                 |       | GSM_L3_MS_v4180/Miscellaneous/                              |                                                          |     |          |
| <b>Objective:</b>                             |       | To finish the HO-procedure. Timing advance = 20 bits period |                                                          |     |          |
| <b>Default:</b>                               |       | OtherEvents                                                 |                                                          |     |          |
| <b>Comments:</b>                              |       | used var's: TCV_ch, TCV_Horf, TCV_Cntref                    |                                                          |     |          |
| Nr                                            | Label | Behaviour Description                                       | CRef                                                     | V   | Comments |
| 1                                             |       | (TCV_Cnt:=0)                                                |                                                          |     |          |
| 2                                             |       | REPEAT localtree_hoacc UNTIL [TCV_Cnt =<br>TCV_Cntref]      |                                                          |     |          |
| 3                                             |       | LIDL_DatRqPhyinfo                                           | PhyInfo_01(TCV_ch,<br>ta)                                |     |          |
| 4                                             |       | (TCV_Fn1:= OM_ReturnFn(TCV_ch))                             |                                                          |     |          |
| 5                                             |       | L?DL_EstIn                                                  | DLEstInd(TCV_ch)                                         |     |          |
| 6                                             |       | L?DL_DatInHoCom(TCV_Fn :=<br>DL_DatInHoCom.fn)              | HndOvCmpRcv(TCV_<br>ch,<br>HandOverCmp_20)               |     |          |
| 7                                             |       | +localtree_hotime                                           |                                                          |     | 1.       |
| 8                                             |       | <b>localtree_hoacc</b><br>L?DL_RaInHoacc                    | HndOvAccRcv(TCV_c<br>h,<br>HandOverAcc_02(TC<br>V_Horf)) |     |          |
| 9                                             |       | (TCV_Cnt := TCV_Cnt + 1)                                    |                                                          |     |          |
| 10                                            |       | <b>localtree_hotime</b><br>+FnArith(TCV_Fn1, TCV_Fn)        |                                                          |     |          |
| 11                                            |       | [TCV_Time > time_fn_fn1]                                    |                                                          | (F) |          |
| 12                                            |       | +ChanRel(TCV_ch)                                            |                                                          |     |          |
| 13                                            |       | [TCV_Time <= time_fn_fn1]                                   |                                                          | (P) |          |
| <b>Detailed Comments:</b> 1. Check of HO-time |       |                                                             |                                                          |     |          |

| Test Step Dynamic Behaviour |       |                                                      |                                                          |     |          |
|-----------------------------|-------|------------------------------------------------------|----------------------------------------------------------|-----|----------|
| <b>Test Step Name:</b>      |       | RR_hocomp3(time_fn1_fn:INTEGER)                      |                                                          |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/                       |                                                          |     |          |
| <b>Objective:</b>           |       | To finish the HO-procedure.                          |                                                          |     |          |
| <b>Default:</b>             |       | OtherEvents                                          |                                                          |     |          |
| <b>Comments:</b>            |       | used var's:<br>TCV_ch, TCV_Horf                      |                                                          |     |          |
| Nr                          | Label | Behaviour Description                                | CRef                                                     | V   | Comments |
| 1                           |       | (TCV_Cnt:=0)                                         |                                                          |     |          |
| 2                           |       | REPEAT localtree_hoacc UNTIL [TCV_Cnt = 4]           |                                                          |     |          |
| 3                           |       | L?DL_EstIn                                           | DLEstInd(TCV_ch)                                         |     |          |
| 4                           |       | L?DL_DatInHoCom(TCV_Fn :=<br>DL_DatInHoCom.fn)       | HndOvCmpRcv(TCV_ch,<br>HandOverCmp_20)                   |     |          |
| 5                           |       | +localtree_hotime                                    |                                                          |     | 1.       |
| 6                           |       | <b>localtree_hoacc</b><br>L?DL_RacInHoacc            | HndOvAccRcv(TCV_c<br>h,<br>HandOverAcc_02(TC<br>V_Horf)) |     |          |
| 7                           |       | (TCV_Cnt := TCV_Cnt + 1)                             |                                                          |     |          |
| 8                           |       | <b>localtree_hotime</b><br>+FnArith(TCV_Fn1, TCV_Fn) |                                                          |     |          |
| 9                           |       | [TCV_Time > time_fn1_fn]                             |                                                          | (F) |          |
| 10                          |       | +ChanRel(TCV_ch)                                     |                                                          |     |          |
| 11                          |       | [TCV_Time <= time_fn1_fn]                            |                                                          | (P) |          |
| <b>Detailed Comments:</b>   |       | 1) Check of HO-time                                  |                                                          |     |          |

| Test Step Dynamic Behaviour |       |                                                     |      |   |          |
|-----------------------------|-------|-----------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | RRmtcallprepare(ta:TA)                              |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/                      |      |   |          |
| <b>Objective:</b>           |       | To prepare a mobile terminating call establishment. |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                         |      |   |          |
| Nr                          | Label | Behaviour Description                               | CRef | V | Comments |
| 1                           |       | +PreEstRRConn(TCV_slot, TCV_tsc, ta)                |      |   |          |
| 2                           |       | +Authentication(TCV_ch, TCV_cks, TSPX_RANDDef)      |      |   |          |
| 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>               |       | GSM_L3_MS_v4180/Miscellaneous/                                                                                                    |                   |   |          |
| <b>Objective:</b>           |       | To manage Setup Mobile Originated.                                                                                                |                   |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                       |                   |   |          |
| Nr                          | Label | Behaviour Description                                                                                                             | CRef              | V | Comments |
| 1                           |       | [NOT Ecall]                                                                                                                       |                   |   |          |
| 2                           |       | L?DL_DatInSetup (TCV_Setup_mo1 :=<br>DL_DatInSetup.msg, TCV_TI :=<br>TCV_Setup_mo1.ti, TCV_TI0 := TCV_TI,<br>TCV_TI.ti_f := '1'B) | SetupRcv(Setup)   |   |          |
| 3                           |       | +CallProcGen(TCV_Setup_mo1, TCV_Service)                                                                                          |                   |   |          |
| 4                           |       | [Ecall]                                                                                                                           |                   |   |          |
| 5                           |       | L?DL_DatInESetup (TCV_Esetup1 :=<br>DL_DatInESetup.msg, TCV_TI :=<br>TCV_Setup_mo1.ti, TCV_TI0 := TCV_TI,<br>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>               |       | GSM_L3_MS_v4180/Miscellaneous/                           |      |     |            |
| <b>Objective:</b>           |       | To check whether the sending sequence number is the same |      |     |            |
| <b>Default:</b>             |       | OtherEvents                                              |      |     |            |
| Nr                          | Label | Behaviour Description                                    | CRef | V   | Comments   |
| 1                           |       | [TCV_Mt1 = TCV_Mt]                                       |      | (P) | same N(SD) |
| 2                           |       | [TCV_Mt1 <> TCV_Mt]                                      |      | (F) |            |
| <b>Detailed Comments:</b>   |       |                                                          |      |     |            |

| Test Step Dynamic Behaviour |       |                                                                                                                                                        |      |   |          |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | SelectPagingCh(cell:CellID)                                                                                                                            |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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                                                                                                                                            |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                  | CRef | V | Comments |
| 1                           |       | [cell = C_CellA]                                                                                                                                       |      |   |          |
| 2                           |       | [TCV_Ccchg=0]                                                                                                                                          |      |   |          |
| 3                           |       | (TCV_PgCh := C_PCH_A_1, TCV_agch := C_AGCH_A_1)                                                                                                        |      |   |          |
| 4                           |       | [TCV_Ccchg=1]                                                                                                                                          |      |   |          |
| 5                           |       | (TCV_PgCh := C_PCH_A_2, TCV_agch := C_AGCH_A_2)                                                                                                        |      |   |          |
| 6                           |       | [TCV_Ccchg=2]                                                                                                                                          |      |   |          |
| 7                           |       | (TCV_PgCh := C_PCH_A_3, TCV_agch := C_AGCH_A_3)                                                                                                        |      |   |          |
| 8                           |       | [TCV_Ccchg=3]                                                                                                                                          |      |   |          |
| 9                           |       | (TCV_PgCh := C_PCH_A_4, TCV_agch := C_AGCH_A_4)                                                                                                        |      |   |          |
| 10                          |       | [cell = C_CellB]                                                                                                                                       |      |   |          |
| 11                          |       | [TCV_Ccchg=0]                                                                                                                                          |      |   |          |
| 12                          |       | (TCV_PgCh := C_PCH_B_1, TCV_agch := C_AGCH_B_1)                                                                                                        |      |   |          |
| 13                          |       | [TCV_Ccchg=1]                                                                                                                                          |      |   |          |
| 14                          |       | (TCV_PgCh := C_PCH_B_2, TCV_agch := C_AGCH_B_2)                                                                                                        |      |   |          |
| 15                          |       | [TCV_Ccchg=2]                                                                                                                                          |      |   |          |
| 16                          |       | (TCV_PgCh := C_PCH_B_3, TCV_agch := C_AGCH_B_3)                                                                                                        |      |   |          |
| 17                          |       | [TCV_Ccchg=3]                                                                                                                                          |      |   |          |
| 18                          |       | (TCV_PgCh := C_PCH_B_4, TCV_agch := C_AGCH_B_4)                                                                                                        |      |   |          |
| 19                          |       | [cell = C_CellC]                                                                                                                                       |      |   |          |
| 20                          |       | [TCV_Ccchg=0]                                                                                                                                          |      |   |          |
| 21                          |       | (TCV_PgCh := C_PCH_C_1, TCV_agch := C_AGCH_C_1)                                                                                                        |      |   |          |
| 22                          |       | [TCV_Ccchg=1]                                                                                                                                          |      |   |          |
| 23                          |       | (TCV_PgCh := C_PCH_C_2, TCV_agch := C_AGCH_C_2)                                                                                                        |      |   |          |
| 24                          |       | [TCV_Ccchg=2]                                                                                                                                          |      |   |          |
| 25                          |       | (TCV_PgCh := C_PCH_C_3, TCV_agch := C_AGCH_C_3)                                                                                                        |      |   |          |
| 26                          |       | [TCV_Ccchg=3]                                                                                                                                          |      |   |          |
| 27                          |       | (TCV_PgCh := C_PCH_C_4, TCV_agch := C_AGCH_C_4)                                                                                                        |      |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                        |      |   |          |



| Test Step Dynamic Behaviour                           |       |                                  |      |   |          |
|-------------------------------------------------------|-------|----------------------------------|------|---|----------|
| <b>Test Step Name:</b> Set_CellChDescr(cell:CellID)   |       |                                  |      |   |          |
| <b>Group:</b> GSM_L3_MS_v4180/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            | CRef | V | Comments |
| 1                                                     |       | [TSPC_PGSM OR TSPC_EGSM]         |      |   |          |
| 2                                                     |       | [cell = C_CellA]                 |      |   |          |
| 3                                                     |       | (TCV_cchd1 := CellChDes_20_Aman) |      |   |          |
| 4                                                     |       | [cell = C_CellB]                 |      |   |          |
| 5                                                     |       | (TCV_cchd1 := CellChDes_20_Bman) |      |   |          |
| 6                                                     |       | [TSPC_DCS]                       |      |   |          |
| 7                                                     |       | [cell = C_CellA]                 |      |   |          |
| 8                                                     |       | (TCV_cchd1 := CellChDes_203_Ad)  |      |   |          |
| 9                                                     |       | [cell = C_CellB]                 |      |   |          |
| 10                                                    |       | (TCV_cchd1 := CellChDes_201_Bd)  |      |   |          |
| <b>Detailed Comments:</b>                             |       |                                  |      |   |          |

| Test Step Dynamic Behaviour                                 |       |                                                                        |                     |   |          |
|-------------------------------------------------------------|-------|------------------------------------------------------------------------|---------------------|---|----------|
| <b>Test Step Name:</b> SetupRcvMo2(pdu_setup: SETUP_MO_PDU) |       |                                                                        |                     |   |          |
| <b>Group:</b> GSM_L3_MS_v4180/Miscellaneous/                |       |                                                                        |                     |   |          |
| <b>Objective:</b> To manage Setup Mobile Originated.        |       |                                                                        |                     |   |          |
| <b>Default:</b> OtherEvents                                 |       |                                                                        |                     |   |          |
| Nr                                                          | Label | Behaviour Description                                                  | CRef                | V | 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) |                     |   |          |
| <b>Detailed Comments:</b>                                   |       |                                                                        |                     |   |          |

| Test Step Dynamic Behaviour                          |       |                                                                                   |      |   |          |
|------------------------------------------------------|-------|-----------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b> Switchcell_A2B                |       |                                                                                   |      |   |          |
| <b>Group:</b> GSM_L3_MS_v4180/Miscellaneous/         |       |                                                                                   |      |   |          |
| <b>Objective:</b> To force the MS to reselect cell B |       |                                                                                   |      |   |          |
| <b>Default:</b> OtherEvents                          |       |                                                                                   |      |   |          |
| Nr                                                   | Label | Behaviour Description                                                             | CRef | V | Comments |
| 1                                                    |       | +Varinit_fixB                                                                     |      |   |          |
| 2                                                    |       | (TCV_Null := OM_ChangeRFOf2Cells(C_CellA, C_E_notsuitable, C_CellB, C_E_default)) |      |   |          |
| <b>Detailed Comments:</b>                            |       |                                                                                   |      |   |          |

| Test Step Dynamic Behaviour                          |       |                                                                                   |      |   |          |
|------------------------------------------------------|-------|-----------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b> Switchcell_B2A                |       |                                                                                   |      |   |          |
| <b>Group:</b> GSM_L3_MS_v4180/Miscellaneous/         |       |                                                                                   |      |   |          |
| <b>Objective:</b> To force the MS to reselect cell A |       |                                                                                   |      |   |          |
| <b>Default:</b> OtherEvents                          |       |                                                                                   |      |   |          |
| Nr                                                   | Label | Behaviour Description                                                             | CRef | V | Comments |
| 1                                                    |       | +Varinit_fixA                                                                     |      |   |          |
| 2                                                    |       | (TCV_Null := OM_ChangeRFOf2Cells(C_CellA, C_E_default, C_CellB, C_E_notsuitable)) |      |   |          |
| <b>Detailed Comments:</b>                            |       |                                                                                   |      |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                  |      |   |          |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | SvcSupportedChk(svc:IA5String)                                                                                   |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/                                                                                   |      |   |          |
| <b>Objective:</b>           |       | To check whether the Basic Service svc is supported against PICS answers.                                        |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                      |      |   |          |
| <b>Comments:</b>            |       | In PICS, if the svc is declared supported, the test case variable TCV_supported is set to TRUE, otherwise FALSE. |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                            | CRef | V | 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)                                                                                         |      |   |          |
| 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]                                                                                                          |      | I | 1.       |

**Detailed Comments:** 1. svc mismatches any defined Basic Services, inclusive.

| Test Step Dynamic Behaviour |       |                                                                                            |      |     |          |
|-----------------------------|-------|--------------------------------------------------------------------------------------------|------|-----|----------|
| <b>Test Step Name:</b>      |       | Timadv_Pwrlvl_chk(k, y:INTEGER; pwrlvl:B_5)                                                |      |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/                                                             |      |     |          |
| <b>Objective:</b>           |       | To check whether the power level and the timing advance in L1 head is correct.             |      |     |          |
| <b>Default:</b>             |       | OtherEvents                                                                                |      |     |          |
| Nr                          | Label | Behaviour Description                                                                      | CRef | V   | Comments |
| 1                           |       | (TCV_L1Head := OM_GetL1Hd(TCV_ch))                                                         |      |     |          |
| 2                           |       | [(TCV_L1Head.ta = INT_TO_BIT(((2*k + y) MOD 256), 7)) AND (TCV_L1Head.mspwrlvl = pwrlvl)]  |      | (P) |          |
| 3                           |       | [(TCV_L1Head.ta <> INT_TO_BIT(((2*k + y) MOD 256), 7)) OR (TCV_L1Head.mspwrlvl <> pwrlvl)] |      | (F) |          |
| 4                           |       | +ChanRel_end(TCV_ch)                                                                       |      |     |          |
| <b>Detailed Comments:</b>   |       |                                                                                            |      |     |          |

| Test Step Dynamic Behaviour |       |                                                         |                                               |     |          |
|-----------------------------|-------|---------------------------------------------------------|-----------------------------------------------|-----|----------|
| <b>Test Step Name:</b>      |       | TmsiReallocation(par_mi:MI; mcc, mnc, lac: OCTETSTRING) |                                               |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/                          |                                               |     |          |
| <b>Objective:</b>           |       |                                                         |                                               |     |          |
| <b>Default:</b>             |       | OtherEventsFail                                         |                                               |     |          |
| Nr                          | Label | Behaviour Description                                   | CRef                                          | V   | Comments |
| 1                           |       | L!DL_DatRqTmsireCmd                                     | TmsiReallocSnd(par_mi, TCV_ch, mcc, mnc, lac) |     |          |
| 2                           |       | L?DL_DatInTmsireCom                                     | TmsiReallocCmp(TCV_ch)                        | (P) |          |
| <b>Detailed Comments:</b>   |       |                                                         |                                               |     |          |

| Test Step Dynamic Behaviour |       |                                                                           |      |   |          |
|-----------------------------|-------|---------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | Varinit_fixcommon                                                         |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/                                            |      |   |          |
| <b>Objective:</b>           |       |                                                                           |      |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                           |      |   |          |
| Nr                          | Label | Behaviour Description                                                     | CRef | V | Comments |
| 1                           |       | (TCV_cksn:=TSPX_CKSNDf, TCV_CphKey :=OC_CphKeyGen(TSPX_Ki, TSPX_RANDDef)) |      |   |          |
| <b>Detailed Comments:</b>   |       |                                                                           |      |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                               |      |   |          |
|-----------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | Varinit_fix(activ_cell:CellID; lac:OCTETSTRING; subch, cksn, rand:BITSTRING; arfcngsm, arfcndcs:INTEGER; imsi:HEXSTRING)                                                                                                      |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/                                                                                                                                                                                                |      |   |          |
| <b>Objective:</b>           |       |                                                                                                                                                                                                                               |      |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                               |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                         | CRef | V | Comments |
| 1                           |       | (TCV_cellid := activ_cell, TCV_ch := OC_SubchOfSdcch4(subch, activ_cell), TCV_sacch := OC_SubchOfSacch4(subch, activ_cell), TCV_ia_ts := '000'B, TCV_lac := lac, TCV_cksn := cksn, TCV_CphKey := OC_CphKeyGen(TSPX_Ki, rand)) |      |   |          |
| 2                           |       | +CCCH_group_Paging_group(TCV_Ccd0H, 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> Varinit_fixA          |       |                                                                                                                                                                                                                                                |      |   |          |
| <b>Group:</b> GSM_L3_MS_v4180/Miscellaneous/ |       |                                                                                                                                                                                                                                                |      |   |          |
| <b>Objective:</b>                            |       |                                                                                                                                                                                                                                                |      |   |          |
| <b>Default:</b> OtherEventsFail              |       |                                                                                                                                                                                                                                                |      |   |          |
| Nr                                           | Label | Behaviour Description                                                                                                                                                                                                                          | CRef | V | Comments |
| 1                                            |       | +Varinit_fixcommon                                                                                                                                                                                                                             |      |   |          |
| 2                                            |       | (TCV_cellid:= C_CellA, TCV_ch:=<br>OC_SubchOfSdcch4(TSPX_SDCCH4SubDef,<br>C_CellA), TCV_sacch:=<br>OC_SubchOfSacch4(TSPX_SDCCH4SubDef,<br>C_CellA), TCV_PgCh:= C_PCH_A_1, TCV_agch<br>:= C_AGCH_A_1, TCV_ia_ts:= '000'B, TCV_lac:=<br>C_LAC_1) |      |   |          |
| 3                                            |       | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                                                                                                                       |      |   |          |
| 4                                            |       | (TCV_chdescr_arfcn:= C_arfcnA)                                                                                                                                                                                                                 |      |   |          |
| 5                                            |       | [TSPC_DCS]                                                                                                                                                                                                                                     |      |   |          |
| 6                                            |       | (TCV_chdescr_arfcn:= C_arfcnAd)                                                                                                                                                                                                                |      |   |          |
| <b>Detailed Comments:</b>                    |       |                                                                                                                                                                                                                                                |      |   |          |

| Test Step Dynamic Behaviour                  |       |                                                                                                                                                                                                                                                  |      |   |          |
|----------------------------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b> Varinit_fixB          |       |                                                                                                                                                                                                                                                  |      |   |          |
| <b>Group:</b> GSM_L3_MS_v4180/Miscellaneous/ |       |                                                                                                                                                                                                                                                  |      |   |          |
| <b>Objective:</b>                            |       |                                                                                                                                                                                                                                                  |      |   |          |
| <b>Default:</b> OtherEventsFail              |       |                                                                                                                                                                                                                                                  |      |   |          |
| Nr                                           | Label | Behaviour Description                                                                                                                                                                                                                            | CRef | V | Comments |
| 1                                            |       | +Varinit_fixcommon                                                                                                                                                                                                                               |      |   |          |
| 2                                            |       | (TCV_cellid:=C_CellB, TCV_ch:=<br>OC_SubchOfSdcch4(TSPX_SDCCH4SubDef,<br>C_CellB), TCV_sacch_B :=<br>OC_SubchOfSacch4(TSPX_SDCCH4SubDef,<br>C_CellB), TCV_PgCh:= C_PCH_B_1, TCV_agch :=<br>C_AGCH_B_1, TCV_ia_ts:= '000'B, TCV_lac:=<br>C_LAC_2) |      |   |          |
| 3                                            |       | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                                                                                                                         |      |   |          |
| 4                                            |       | (TCV_chdescr_arfcn:= C_arfcnB)                                                                                                                                                                                                                   |      |   |          |
| 5                                            |       | [TSPC_DCS]                                                                                                                                                                                                                                       |      |   |          |
| 6                                            |       | (TCV_chdescr_arfcn:= C_arfcnBd)                                                                                                                                                                                                                  |      |   |          |
| <b>Detailed Comments:</b>                    |       |                                                                                                                                                                                                                                                  |      |   |          |

| Test Step Dynamic Behaviour                  |       |                                                                                                                                                                                                                                                 |      |   |          |
|----------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b> Varinit_fixC          |       |                                                                                                                                                                                                                                                 |      |   |          |
| <b>Group:</b> GSM_L3_MS_v4180/Miscellaneous/ |       |                                                                                                                                                                                                                                                 |      |   |          |
| <b>Objective:</b>                            |       |                                                                                                                                                                                                                                                 |      |   |          |
| <b>Default:</b> OtherEventsFail              |       |                                                                                                                                                                                                                                                 |      |   |          |
| Nr                                           | Label | Behaviour Description                                                                                                                                                                                                                           | CRef | V | Comments |
| 1                                            |       | +Varinit_fixcommon                                                                                                                                                                                                                              |      |   |          |
| 2                                            |       | (TCV_cellid:=C_CellC, TCV_ch:=<br>OC_SubchOfSdcch4(TSPX_SDCCH4SubDef,<br>C_CellC), TCV_sacch_C :=<br>OC_SubchOfSacch4(TSPX_SDCCH4SubDef,<br>C_CellC), TCV_PgCh:= C_PCH_C_1, TCV_agch<br>:= C_AGCH_C_1, TCV_ia_ts:= '000'B,<br>TCV_lac:=C_LAC_3) |      |   |          |
| 3                                            |       | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                                                                                                                        |      |   |          |
| 4                                            |       | (TCV_chdescr_arfcn:= C_arfcnC)                                                                                                                                                                                                                  |      |   |          |
| 5                                            |       | [TSPC_DCS]                                                                                                                                                                                                                                      |      |   |          |
| 6                                            |       | (TCV_chdescr_arfcn:= C_arfcnCd)                                                                                                                                                                                                                 |      |   |          |
| <b>Detailed Comments:</b>                    |       |                                                                                                                                                                                                                                                 |      |   |          |

| Test Step Dynamic Behaviour                  |       |                                                                                                                                                                                                                                             |      |   |          |
|----------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b> Varinit_fixH          |       |                                                                                                                                                                                                                                             |      |   |          |
| <b>Group:</b> GSM_L3_MS_v4180/Miscellaneous/ |       |                                                                                                                                                                                                                                             |      |   |          |
| <b>Objective:</b>                            |       |                                                                                                                                                                                                                                             |      |   |          |
| <b>Default:</b> OtherEventsFail              |       |                                                                                                                                                                                                                                             |      |   |          |
| Nr                                           | Label | Behaviour Description                                                                                                                                                                                                                       | CRef | V | Comments |
| 1                                            |       | +Varinit_fixcommon                                                                                                                                                                                                                          |      |   |          |
| 2                                            |       | (TCV_cellid:=C_CellH, TCV_ch:=<br>OC_SubchOfSdcch4(TSPX_SDCCH4SubA,<br>C_CellH), TCV_sacch_H :=<br>OC_SubchOfSacch4(TSPX_SDCCH4SubA,<br>C_CellH), TCV_PgCh:= C_PCH_H_1, TCV_agch<br>:= C_AGCH_H_1, TCV_ia_ts:= '000'B,<br>TCV_lac:=C_LAC_8) |      |   |          |
| 3                                            |       | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                                                                                                                    |      |   |          |
| 4                                            |       | (TCV_chdescr_arfcn:= C_arfcnH)                                                                                                                                                                                                              |      |   |          |
| 5                                            |       | [TSPC_DCS]                                                                                                                                                                                                                                  |      |   |          |
| 6                                            |       | (TCV_chdescr_arfcn:= C_arfcnHd)                                                                                                                                                                                                             |      |   |          |
| <b>Detailed Comments:</b>                    |       |                                                                                                                                                                                                                                             |      |   |          |

| Test Step Dynamic Behaviour                                               |       |                                                    |      |   |          |
|---------------------------------------------------------------------------|-------|----------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b> WaitForInService                                   |       |                                                    |      |   |          |
| <b>Group:</b> GSM_L3_MS_v4180/Miscellaneous/                              |       |                                                    |      |   |          |
| <b>Objective:</b> To wait until the MS enters the Idle and updated state. |       |                                                    |      |   |          |
| <b>Default:</b> OtherEvents                                               |       |                                                    |      |   |          |
| Nr                                                                        | Label | Behaviour Description                              | CRef | V | 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,<br>PgReqTp1Norm)) |      |   |          |
| 5                                                                         |       | (TCV_Res := FALSE)                                 |      |   |          |
| 6                                                                         |       | REPEAT localtree UNTIL [TCV_Res]                   |      |   |          |
|                                                                           |       | <b>localtree</b>                                   |      |   |          |
| 7                                                                         |       | (TCV_Res := OO_InServiceCHK())                     |      |   |          |
| <b>Detailed Comments:</b>                                                 |       |                                                    |      |   |          |

### Test Step Group SysInfo

| 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> GSM_L3_MS_v4180/Miscellaneous/SysInfo/                                                                              |       |                                                                                                                                                                                                                                                                                                             |      |   |          |
| <b>Objective:</b> To change the LAC of cell A and of System Information Messages according to used testcase.                      |       |                                                                                                                                                                                                                                                                                                             |      |   |          |
| <b>Default:</b> OtherEvents                                                                                                       |       |                                                                                                                                                                                                                                                                                                             |      |   |          |
| Nr                                                                                                                                | Label | Behaviour Description                                                                                                                                                                                                                                                                                       | CRef | V | Comments |
| 1                                                                                                                                 |       | +SysInfoSending_fh(C_SCH_A, C_BCCH_A_1, t,<br>retr, neci, att, babr, cch_con, bpm, t3212, C_ci_cellA,<br>mcc, mnc, lac, CellOpt_01, CellChDes_04,<br>CellChDes_03, C_CellReselectHys12,<br>C_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01,<br>BcchFreqLst_48, C_noReestablishment, C_BCC,<br>C_NCC_1, C_NCCP_2) |      |   |          |
| 2                                                                                                                                 |       | (TCV_Ccd0A := TCV_Ccd0H, TCV_sysinfo5 :=<br>TCV_sysinfo5, TCV_sysinfo6 := TCV_sysinfo6)                                                                                                                                                                                                                     |      |   |          |
| 3                                                                                                                                 |       | +SysInfo_SacchSending(TCV_sacch,<br>TCV_sysinfo5, TCV_sysinfo6)                                                                                                                                                                                                                                             |      |   |          |
| <b>Detailed Comments:</b>                                                                                                         |       |                                                                                                                                                                                                                                                                                                             |      |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                           |      |   |          |
|-----------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | ChgLAC_B(t, retr, neci, att:INTEGER; babr, cch_con, bpm:B_3; t3212:OCTETSTRING; mcc, mnc, lac:OCTETSTRING)                                                                                                                                                                                |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/SysInfo/                                                                                                                                                                                                                                                    |      |   |          |
| <b>Objective:</b>           |       | To change the LAC of cell B and of System Information Messages according to used testcase.                                                                                                                                                                                                |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                                                                               |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                     | CRef | V | 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_MaxPwrLvIG, C_MaxPwrLvID, BcchFreqLst_01, BcchFreqLst_48, C_noReestablishment, C_BCC, C_NCC_1, C_NCCP_2) |      |   |          |
| 2                           |       | (TCV_Ccd0B := TCV_Ccd0H, TCV_sysinfo5_B := TCV_sysinf5, TCV_sysinfo6_B := TCV_sysinf6)                                                                                                                                                                                                    |      |   |          |
| 3                           |       | +SysInfo_SacchSending(TCV_sacch_B, TCV_sysinfo5_B, TCV_sysinfo6_B)                                                                                                                                                                                                                        |      |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                                                           |      |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                    |                                                                                                                                                              |   |          |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------|
| <b>Test Step Name:</b>      |       | ChgLAI_C(att:INTEGER; babr, cch_con, bpm:B_3; t3212, mcc, par_mnc, lac:OCTETSTRING)                                |                                                                                                                                                              |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/SysInfo/                                                                             |                                                                                                                                                              |   |          |
| <b>Objective:</b>           |       | To change the LAI of cell C to HPLMN.                                                                              |                                                                                                                                                              |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                        |                                                                                                                                                              |   |          |
| Nr                          | Label | Behaviour Description                                                                                              | CRef                                                                                                                                                         | V | 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                           |       | LIDL_UdatRqSysinfo4                                                                                                | SysInfo4(C_BCCH_C_1, mcc, par_mnc, lac, C_CellReselectHys12, C_MaxPwrLvlG, TCV_Neci, TCV_Max, TCV_Tx, C_noRestablishment)                                    |   |          |
| 4                           |       | LIDL_UdatRqSysinfo6                                                                                                | SysInfo6(TCV_sacch_C, SysInf6(C_ci_cellC, mcc, par_mnc, lac, CellOpt_01))                                                                                    |   |          |
| 5                           |       | LIDL_UdatRqSysinfo3                                                                                                | SysInfo3(C_BCCH_C_1, C_ci_cellC, mcc, par_mnc, lac, TCV_Ccd0C, CellOpt_01, C_CellReselectHys12, C_MaxPwrLvlG, TCV_Neci, TCV_Max, TCV_Tx, C_noRestablishment) |   |          |
| 6                           |       | [TSPC_DCS]                                                                                                         |                                                                                                                                                              |   |          |
| 7                           |       | LIDL_UdatRqSysinfo4                                                                                                | SysInfo4(C_BCCH_C_1, mcc, par_mnc, lac, C_CellReselectHys12, C_MaxPwrLvlD, TCV_Neci, TCV_Max, TCV_Tx, C_noRestablishment)                                    |   |          |
| 8                           |       | LIDL_UdatRqSysinfo6                                                                                                | SysInfo6(TCV_sacch_C, SysInf6(C_ci_cellC, mcc, par_mnc, lac, CellOpt_01))                                                                                    |   |          |
| 9                           |       | LIDL_UdatRqSysinfo3                                                                                                | SysInfo3(C_BCCH_C_1, C_ci_cellC, mcc, par_mnc, lac, TCV_Ccd0C, CellOpt_01, C_CellReselectHys12, C_MaxPwrLvlD, TCV_Neci, TCV_Max, TCV_Tx, C_noRestablishment) |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                    |                                                                                                                                                              |   |          |

| 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, mtmcdcs:INTEGER; bcchflgsm, bcchfldcs:NCD; Re:B_1; bcc:BCC; ncc:NCC; nccp:NCCP; Sub:B_2) |                                                                                                                                   |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/SysInfo/                                                                                                                                                                                                                        |                                                                                                                                   |   |          |
| <b>Objective:</b>           |       | To send system information messages for the CBMS tests.                                                                                                                                                                                                       |                                                                                                                                   |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                                                   |                                                                                                                                   |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                         | CRef                                                                                                                              | V | 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_Tctype := INT_TO_BIT((4 + BIT_TO_INT(Sub)), 5))                                                          |                                                                                                                                   |   |          |
| 2                           |       | (TCV_sysinf6 := SysInf6(ci, mcc, mnc, lac, co))                                                                                                                                                                                                               |                                                                                                                                   |   |          |
| 3                           |       | LIDL_UdatRqSchinfo                                                                                                                                                                                                                                            | SyncInfo(sch, bcc, ncc)                                                                                                           |   |          |
| 4                           |       | +ltree_sysinfo                                                                                                                                                                                                                                                |                                                                                                                                   |   |          |
| 5                           |       | <b>ltree_sysinfo</b>                                                                                                                                                                                                                                          |                                                                                                                                   |   |          |
| 6                           |       | [TSPC_PGSM OR TSPC_EGSM]<br>LIDL_UdatRqSysinfo4                                                                                                                                                                                                               | SysInfo4_CBMS(bcch, mcc, mnc, lac, crh, mtmcgsm, TCV_Neci, TCV_Max, TCV_Tx, Re, ChDescrp_nfh(TCV_Tctype, C_S0, C_BCC, C_arfcnA))  |   |          |
| 7                           |       | LIDL_UdatRqSysinfo2                                                                                                                                                                                                                                           | SysInfo2(bcch, bcchflgsm, TCV_Max, TCV_Tx, Re, nccp)                                                                              |   |          |
| 8                           |       | LIDL_UdatRqSysinfo1_nh                                                                                                                                                                                                                                        | SysInfo1_nh(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcgsm, TCV_Neci, TCV_Max, TCV_Tx, Re)                                  |   |          |
| 9                           |       | LIDL_UdatRqSysinfo3                                                                                                                                                                                                                                           | SysInfo3(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcgsm, TCV_Neci, TCV_Max, TCV_Tx, Re)                                     |   |          |
| 10                          |       | (TCV_sysinf5 := SysInf5(bcchflgsm))                                                                                                                                                                                                                           |                                                                                                                                   |   |          |
| 11                          |       | [TSPC_DCS]                                                                                                                                                                                                                                                    |                                                                                                                                   |   |          |
| 12                          |       | LIDL_UdatRqSysinfo4                                                                                                                                                                                                                                           | SysInfo4_CBMS(bcch, mcc, mnc, lac, crh, mtmcdcs, TCV_Neci, TCV_Max, TCV_Tx, Re, ChDescrp_nfh(TCV_Tctype, C_S0, C_BCC, C_arfcnAd)) |   |          |
| 13                          |       | LIDL_UdatRqSysinfo2                                                                                                                                                                                                                                           | SysInfo2(bcch, bcchfldcs, TCV_Max, TCV_Tx, Re, nccp)                                                                              |   |          |
| 14                          |       | LIDL_UdatRqSysinfo1_nh                                                                                                                                                                                                                                        | SysInfo1_nh(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcdcs, TCV_Neci, TCV_Max, TCV_Tx, Re)                                  |   |          |
| 15                          |       | LIDL_UdatRqSysinfo3                                                                                                                                                                                                                                           | SysInfo3(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcdcs, TCV_Neci, TCV_Max, TCV_Tx, Re)                                     |   |          |
| 16                          |       | (TCV_sysinf5 := SysInf5(bcchfldcs))                                                                                                                                                                                                                           |                                                                                                                                   |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                               |                                                                                                                                   |   |          |



| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                               |   |          |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---|----------|
| <b>Test Step Name:</b>      |       | 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; cchdgs, cchddcs:CCHD; crh, mtmcgs, mtmcdcs:INTEGER; bcchflgs, bcchfldcs:NCD; Re:B_1; bcc:BCC; ncc:NCC; nccp:NCCP)                                                                                                                         |                                                                                               |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/SysInfo/                                                                                                                                                                                                                                                                                                                                                         |                                                                                               |   |          |
| <b>Objective:</b>           |       | To send system information messages for the L3 tests. The following parameters specified by input parameters:<br>- bcch: BCCH<br>- sch: SCH<br>- bcchfl: BCCH frequency list<br>- ci: Cell identity<br>- lai: Location area identification<br>- ccd: Control channel description<br>- csp: Cell selection parameters<br>- cchd: Cell channel description<br>- rachpar: RACH control parameters |                                                                                               |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                               |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                          | CRef                                                                                          | V | 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))                                                                                                                                                                                                                                                                                                                                                |                                                                                               |   |          |
| 3                           |       | LIDL_UdatRqSchinfo                                                                                                                                                                                                                                                                                                                                                                             | SynclInfo(sch, bcc, ncc)                                                                      |   |          |
| 4                           |       | +ltree_sysinfo                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                               |   |          |
| <b>ltree_sysinfo</b>        |       |                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                               |   |          |
| [TSPC_PGSM OR TSPC_EGSM]    |       |                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                               |   |          |
| 5                           |       | LIDL_UdatRqSysinfo1                                                                                                                                                                                                                                                                                                                                                                            | SysInfo1(bcch, cchdgs, TCV_Max, TCV_Tx, Re)                                                   |   |          |
| 6                           |       | LIDL_UdatRqSysinfo2                                                                                                                                                                                                                                                                                                                                                                            | SysInfo2(bcch, bcchflgs, TCV_Max, TCV_Tx, Re, nccp)                                           |   |          |
| 7                           |       | LIDL_UdatRqSysinfo3                                                                                                                                                                                                                                                                                                                                                                            | SysInfo3(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcgs, TCV_Neci, TCV_Max, TCV_Tx, Re)  |   |          |
| 8                           |       | LIDL_UdatRqSysinfo4                                                                                                                                                                                                                                                                                                                                                                            | SysInfo4(bcch, mcc, mnc, lac, crh, mtmcgs, TCV_Neci, TCV_Max, TCV_Tx, Re)                     |   |          |
| 9                           |       | (TCV_sysinf5 := SysInf5(bcchflgs))                                                                                                                                                                                                                                                                                                                                                             |                                                                                               |   |          |
| [TSPC_DCS]                  |       |                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                               |   |          |
| 10                          |       | LIDL_UdatRqSysinfo1                                                                                                                                                                                                                                                                                                                                                                            | SysInfo1(bcch, cchddcs, TCV_Max, TCV_Tx, Re)                                                  |   |          |
| 11                          |       | LIDL_UdatRqSysinfo2                                                                                                                                                                                                                                                                                                                                                                            | SysInfo2(bcch, bcchfldcs, TCV_Max, TCV_Tx, Re, nccp)                                          |   |          |
| 12                          |       | LIDL_UdatRqSysinfo3                                                                                                                                                                                                                                                                                                                                                                            | SysInfo3(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcdcs, TCV_Neci, TCV_Max, TCV_Tx, Re) |   |          |
| 13                          |       | LIDL_UdatRqSysinfo4                                                                                                                                                                                                                                                                                                                                                                            | SysInfo4(bcch, mcc, mnc, lac, crh, mtmcdcs, TCV_Neci, TCV_Max, TCV_Tx, Re)                    |   |          |
| 14                          |       | (TCV_sysinf5 := SysInf5(bcchfldcs), TCV_sysinf6.co.pwrc := '1'B)                                                                                                                                                                                                                                                                                                                               |                                                                                               |   |          |
| 15                          |       |                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                               |   |          |
| 16                          |       |                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                               |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                               |   |          |

| Test Step Dynamic Behaviour                                                                                                                                                                                                                                                                         |       |                                                                                                                                                  |                                                                                                  |    |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----|----------|
| <b>Test Step Name:</b> SysInfoSending_nfh(sch, bcch:LOGICCH; t, retr, neci, att: INTEGER; babr, cch_con, bpm:B_3; t3212:OCTETSTRING; ci:CI; mcc, mnc, lac:OCTETSTRING; co:CO; crh, mtmcgsm, mtmcdcs:INTEGER; bcchflgsm, bcflaltgsm, bcchfldcs, bcflaltdcs:NCD; Re:B_1; bcc:BCC; ncc:NCC; nccp:NCCP) |       |                                                                                                                                                  |                                                                                                  |    |          |
| <b>Group:</b> GSM_L3_MS_v4180/Miscellaneous/SysInfo/                                                                                                                                                                                                                                                |       |                                                                                                                                                  |                                                                                                  |    |          |
| <b>Objective:</b> To send system information messages with default parameters defined for the L3 tests for which no special parameters indicated.                                                                                                                                                   |       |                                                                                                                                                  |                                                                                                  |    |          |
| <b>Default:</b> OtherEvents                                                                                                                                                                                                                                                                         |       |                                                                                                                                                  |                                                                                                  |    |          |
| Nr                                                                                                                                                                                                                                                                                                  | Label | Behaviour Description                                                                                                                            | CRef                                                                                             | V  | 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))                                                                                                  |                                                                                                  |    |          |
| 3                                                                                                                                                                                                                                                                                                   |       | LIDL_UdatRqSchinfo                                                                                                                               | SyncInfo(sch, bcc, ncc)                                                                          |    |          |
| 4                                                                                                                                                                                                                                                                                                   |       | +gsmOrDcs                                                                                                                                        |                                                                                                  |    |          |
| <b>gsmOrDcs</b>                                                                                                                                                                                                                                                                                     |       |                                                                                                                                                  |                                                                                                  |    |          |
| 5                                                                                                                                                                                                                                                                                                   |       | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                         |                                                                                                  | 1. |          |
| 6                                                                                                                                                                                                                                                                                                   |       | LIDL_UdatRqSysinfo4                                                                                                                              | SysInfo4(bcch, mcc, mnc, lac, crh, mtmcgsm, TCV_Neci, TCV_Max, TCV_Tx, Re)                       |    |          |
| 7                                                                                                                                                                                                                                                                                                   |       | LIDL_UdatRqSysinfo1_nh                                                                                                                           | SysInfo1_nh(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcgsm, TCV_Neci, TCV_Max, TCV_Tx, Re) |    |          |
| 8                                                                                                                                                                                                                                                                                                   |       | LIDL_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                                                                                                                                                                                                                                                                                                  |       | LIDL_UdatRqSysinfo2                                                                                                                              | SysInfo2(bcch, bcchflgsm, TCV_Max, TCV_Tx, Re, nccp)                                             |    |          |
| 11                                                                                                                                                                                                                                                                                                  |       | (TCV_sysinf5 := SysInf5(bcchflgsm))                                                                                                              |                                                                                                  |    |          |
| 12                                                                                                                                                                                                                                                                                                  |       | [TSPX_AltNb]                                                                                                                                     |                                                                                                  | 4. |          |
| 13                                                                                                                                                                                                                                                                                                  |       | LIDL_UdatRqSysinfo2                                                                                                                              | SysInfo2(bcch, bcflaltgsm, TCV_Max, TCV_Tx, Re, nccp)                                            |    |          |
| 14                                                                                                                                                                                                                                                                                                  |       | (TCV_sysinf5 := SysInf5(bcflaltgsm))                                                                                                             |                                                                                                  |    |          |
| 15                                                                                                                                                                                                                                                                                                  |       | [TSPC_DCS]                                                                                                                                       |                                                                                                  | 2. |          |
| 16                                                                                                                                                                                                                                                                                                  |       | LIDL_UdatRqSysinfo4                                                                                                                              | SysInfo4(bcch, mcc, mnc, lac, crh, mtmcdcs, TCV_Neci, TCV_Max, TCV_Tx, Re)                       |    |          |
| 17                                                                                                                                                                                                                                                                                                  |       | LIDL_UdatRqSysinfo1_nh                                                                                                                           | SysInfo1_nh(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcdcs, TCV_Neci, TCV_Max, TCV_Tx, Re) |    |          |
| 18                                                                                                                                                                                                                                                                                                  |       | LIDL_UdatRqSysinfo3                                                                                                                              | SysInfo3(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcdcs, TCV_Neci, TCV_Max, TCV_Tx, Re)    |    |          |
| 19                                                                                                                                                                                                                                                                                                  |       | [NOT TSPX_AltNb]                                                                                                                                 |                                                                                                  | 3. |          |
| 20                                                                                                                                                                                                                                                                                                  |       | LIDL_UdatRqSysinfo2                                                                                                                              | SysInfo2(bcch, bcchfldcs, TCV_Max, TCV_Tx, Re, nccp)                                             |    |          |
| 21                                                                                                                                                                                                                                                                                                  |       | (TCV_sysinf5 := SysInf5(bcchfldcs))                                                                                                              |                                                                                                  |    |          |

|                                                    |                                      |  |                                                       |    |
|----------------------------------------------------|--------------------------------------|--|-------------------------------------------------------|----|
| 22                                                 | [TSPX_AltNb]                         |  |                                                       |    |
| 23                                                 | L!DL_UdatRqSysinfo2                  |  | SysInfo2(bcch, bcflaltdcs, TCV_Max, TCV_Tx, Re, nccp) | 4. |
| 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                                                                                                                                                                                                                                                    |       |                                                                                                                                                  |                                                                                               |   |          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---|----------|
| <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; cchdgsM:CCHD; crh, mtmcgsM:INTEGER; bcchflgsM, bcchflegsm:NCD; Re:B_1; bcc:BCC; ncc:NCC; nccp:NCCP) |       |                                                                                                                                                  |                                                                                               |   |          |
| <b>Group:</b> GSM_L3_MS_v4180/Miscellaneous/SysInfo/                                                                                                                                                                                                                           |       |                                                                                                                                                  |                                                                                               |   |          |
| <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                                                                                                                                                                                                                                                    |       |                                                                                                                                                  |                                                                                               |   |          |
| Nr                                                                                                                                                                                                                                                                             | Label | Behaviour Description                                                                                                                            | CRef                                                                                          | V | Comments |
| 1                                                                                                                                                                                                                                                                              |       | (TCV_Tx := OC_CnvtTx(t), TCV_Max := OC_CnvtMax(retr), TCV_Neci := INT_TO_BIT(neci,1), TCV_Ccd0H := CntrlChDscrp(att, babr, cch_con, bpm, t3212)) |                                                                                               |   |          |
| 2                                                                                                                                                                                                                                                                              |       | L!DL_UdatRqSchinfo                                                                                                                               | Synclnfo(sch, bcc, ncc)                                                                       |   | 1.       |
| 3                                                                                                                                                                                                                                                                              |       | (TCV_sysinf6 := SysInf6(ci, mcc, mnc, lac, co))                                                                                                  |                                                                                               |   |          |
| 4                                                                                                                                                                                                                                                                              |       | L!DL_UdatRqSysinfo1                                                                                                                              | SysInfo1(bcch, cchdgsM, TCV_Max, TCV_Tx, Re)                                                  |   | 2.       |
| 5                                                                                                                                                                                                                                                                              |       | L!DL_UdatRqSysinfo2<br>(DL_UdatRqSysinfo2.msg.bcchfl.extind := '1'B)                                                                             | SysInfo2(bcch, bcchflgsM, TCV_Max, TCV_Tx, Re, nccp)                                          |   |          |
| 6                                                                                                                                                                                                                                                                              |       | L!DL_UdatRqSysinfo2bis                                                                                                                           | SysInfo2bis(bcch)                                                                             |   |          |
| 7                                                                                                                                                                                                                                                                              |       | L!DL_UdatRqSysinfo4                                                                                                                              | SysInfo4(bcch, mcc, mnc, lac, crh, mtmcgsM, TCV_Neci, TCV_Max, TCV_Tx, Re)                    |   |          |
| 8                                                                                                                                                                                                                                                                              |       | (TCV_sysinf5 := SysInf5(bcchflgsM), TCV_sysinfo5.bcchfl.extind := '1'B)                                                                          |                                                                                               |   |          |
| 9                                                                                                                                                                                                                                                                              |       | (TCV_sysinfo5bis := SysInf5bis(bcchflegsm))                                                                                                      |                                                                                               |   |          |
| 10                                                                                                                                                                                                                                                                             |       | L!DL_UdatRqSysinfo3                                                                                                                              | SysInfo3(bcch, ci, mcc, mnc, lac, TCV_Ccd0H, co, crh, mtmcgsM, TCV_Neci, TCV_Max, TCV_Tx, Re) |   |          |
| <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-test in in cell A (GSM900).                                                                                                                                                                                  |       |                                                                                                                                                  |                                                                                               |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                       |                               |   |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---|----------|
| <b>Test Step Name:</b>      |       | SysInfo_SacchSending(ch:LOGICCH; sysinfo5_pdu:SYSINFO5_PDU;<br>sysinfo6_pdu:SYSINFO6_PDU)                                             |                               |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/SysInfo/                                                                                                |                               |   |          |
| <b>Objective:</b>           |       | To send SYSTEM INFORMATION 5 and 6 messages defined by parameters 'sysinfo5_pdu' and 'sysinfo6_pdu' in the parametrized 'ch' channel. |                               |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                           |                               |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                 | CRef                          | V | Comments |
| 1                           |       | [ch <> "dummy"]                                                                                                                       |                               |   |          |
| 2                           |       | L!DL_UdatRqSysinfo6                                                                                                                   | SysInfo6(ch,<br>sysinfo6_pdu) |   |          |
| 3                           |       | L!DL_UdatRqSysinfo5                                                                                                                   | SysInfo5(ch,<br>sysinfo5_pdu) |   |          |
| 4                           |       | [ch = "dummy"]                                                                                                                        |                               | I |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                       |                               |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                   |                                     |   |          |
|-----------------------------|-------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------|---|----------|
| <b>Test Step Name:</b>      |       | SysInfo_5bisSending(ch:LOGICCH; sysinfo5bis_pdu:SYSINFO5bis_PDU)                                                  |                                     |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/SysInfo/                                                                            |                                     |   |          |
| <b>Objective:</b>           |       | To send SYSTEM INFORMATION 5bis message defined by parameters 'sysinfo5bis_pdu' in the parametrized 'ch' channel. |                                     |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                       |                                     |   |          |
| Nr                          | Label | Behaviour Description                                                                                             | CRef                                | V | Comments |
| 1                           |       | [ch <> "dummy"]                                                                                                   |                                     |   |          |
| 2                           |       | L!DL_UdatRqSysinfo5bis                                                                                            | SysInfo5bis(ch,<br>sysinfo5bis_pdu) |   |          |
| 3                           |       | [ch = "dummy"]                                                                                                    |                                     | I |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                   |                                     |   |          |

| 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>               |       | GSM_L3_MS_v4180/Miscellaneous/SysInfo/                                                                             |                                                                                                                                                         |   |          |
| <b>Objective:</b>           |       | To set the NECI =1.                                                                                                |                                                                                                                                                         |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                        |                                                                                                                                                         |   |          |
| Nr                          | Label | Behaviour Description                                                                                              | CRef                                                                                                                                                    | V | 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                           |       | LIDL_UdatRqSysinfo4                                                                                                | SysInfo4(C_BCCH_A_1, mcc, mnc, lac, C_CellReselectHys12, C_MaxPwrLvlG, TCV_Neci, TCV_Max, TCV_Tx, C_Reestablishment)                                    |   |          |
| 4                           |       | LIDL_UdatRqSysinfo3                                                                                                | SysInfo3(C_BCCH_A_1, C_ci_cellA, mcc, mnc, lac, TCV_Ccd0A, CellOpt_01, C_CellReselectHys12, C_MaxPwrLvlG, TCV_Neci, TCV_Max, TCV_Tx, C_Reestablishment) |   |          |
| 5                           |       | [TSPC_DCS]                                                                                                         |                                                                                                                                                         |   |          |
| 6                           |       | LIDL_UdatRqSysinfo4                                                                                                | SysInfo4(C_BCCH_A_1, mcc, mnc, lac, C_CellReselectHys12, C_MaxPwrLvlD, TCV_Neci, TCV_Max, TCV_Tx, C_Reestablishment)                                    |   |          |
| 7                           |       | LIDL_UdatRqSysinfo3                                                                                                | SysInfo3(C_BCCH_A_1, C_ci_cellA, mcc, mnc, lac, TCV_Ccd0A, CellOpt_01, C_CellReselectHys12, C_MaxPwrLvlD, TCV_Neci, TCV_Max, TCV_Tx, C_Reestablishment) |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                    |                                                                                                                                                         |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                  |                                                                                                                                                             |   |          |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------|
| <b>Test Step Name:</b>      |       | SetATT(t, retr, att, neci:INTEGER; babr, cch_con, bpm:B_3; t3212, mcc, mnc, lac:OCTETSTRING)                                                     |                                                                                                                                                             |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Miscellaneous/SysInfo/                                                                                                           |                                                                                                                                                             |   |          |
| <b>Objective:</b>           |       | To set the ATT flag to "MS's in the cell should apply IMSI attach and detach procedure"                                                          |                                                                                                                                                             |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                      |                                                                                                                                                             |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                            | CRef                                                                                                                                                        | V | 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                           |       | LIDL_UdatRqSysinfo1_nh                                                                                                                           | SysInfo1_nh(C_BCC H_A_1, C_ci_cellA, mcc, mnc, lac, TCV_Ccd0A, CellOpt_01, C_CellReselectHys12, C_MaxPwrLvlG, TCV_Neci, TCV_Max, TCV_Tx, C_Reestablishment) |   |          |
| 4                           |       | LIDL_UdatRqSysinfo3                                                                                                                              | SysInfo3(C_BCCH_A_1, C_ci_cellA, mcc, mnc, lac, TCV_Ccd0A, CellOpt_01, C_CellReselectHys12, C_MaxPwrLvlG, TCV_Neci, TCV_Max, TCV_Tx, C_Reestablishment)     |   |          |
| 5                           |       | START T_dly(5000)                                                                                                                                |                                                                                                                                                             |   | 3.       |
| 6                           |       | ?TIMEOUT T_dly                                                                                                                                   |                                                                                                                                                             |   | 3.       |
| 7                           |       | [TSPC_DCS]                                                                                                                                       |                                                                                                                                                             |   | 2.       |
| 8                           |       | LIDL_UdatRqSysinfo1_nh                                                                                                                           | SysInfo1_nh(C_BCC H_A_1, C_ci_cellA, mcc, mnc, lac, TCV_Ccd0A, CellOpt_01, C_CellReselectHys12, C_MaxPwrLvlD, TCV_Neci, TCV_Max, TCV_Tx, C_Reestablishment) |   |          |
| 9                           |       | LIDL_UdatRqSysinfo3                                                                                                                              | SysInfo3(C_BCCH_A_1, C_ci_cellA, mcc, mnc, lac, TCV_Ccd0A, CellOpt_01, C_CellReselectHys12, C_MaxPwrLvlD, TCV_Neci, TCV_Max, TCV_Tx, C_ReestablishMent)     |   |          |
| 10                          |       | START T_dly(5000)                                                                                                                                |                                                                                                                                                             |   | 3.       |
| 11                          |       | ?TIMEOUT T_dly                                                                                                                                   |                                                                                                                                                             |   | 3.       |
| <b>Detailed Comments:</b>   |       | 1. For P-GSM900.<br>2. For DCS1800.<br>3. Wait for 5 seconds to allow the MS read BCCH information.                                              |                                                                                                                                                             |   |          |

## Test Step Group OperatorOP

| Test Step Dynamic Behaviour |       |                                                |      |   |          |
|-----------------------------|-------|------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | InitCall(srv: SERVICES)                        |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/OperatorOP/                    |      |   |          |
| <b>Objective:</b>           |       | To initiate a call of the basic service 'srv'. |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                    |      |   |          |
| Nr                          | Label | Behaviour Description                          | CRef | V | Comments |
| 1                           |       | (TCV_Null := OO_InitCall(srv))                 |      |   |          |
| <b>Detailed Comments:</b>   |       |                                                |      |   |          |

| Test Step Dynamic Behaviour |       |                                                                           |      |   |          |
|-----------------------------|-------|---------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | InitNonCallSupp                                                           |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/OperatorOP/                                               |      |   |          |
| <b>Objective:</b>           |       | To attempt a non call related supplementary service at the MS under test. |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                               |      |   |          |
| Nr                          | Label | Behaviour Description                                                     | CRef | V | Comments |
| 1                           |       | (TCV_Null := OO_InitNonCallSS())                                          |      |   |          |
| <b>Detailed Comments:</b>   |       |                                                                           |      |   |          |

| Test Step Dynamic Behaviour |       |                                                                      |      |   |          |
|-----------------------------|-------|----------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | AtmpShortMsg                                                         |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/OperatorOP/                                          |      |   |          |
| <b>Objective:</b>           |       | To attempt a short message service transaction at the MS under test. |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                          |      |   |          |
| Nr                          | Label | Behaviour Description                                                | CRef | V | Comments |
| 1                           |       | (TCV_Null := OO_InitCall(TSPX_MO_BscSvc_SMS))                        |      |   |          |
| <b>Detailed Comments:</b>   |       |                                                                      |      |   |          |

| Test Step Dynamic Behaviour |       |                                                                        |      |     |          |
|-----------------------------|-------|------------------------------------------------------------------------|------|-----|----------|
| <b>Test Step Name:</b>      |       | CheckUssdStringDisplayed(strg: IA5String)                              |      |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/OperatorOP/                                            |      |     |          |
| <b>Objective:</b>           |       | To check whether the correct USSD String 'strg' is displayed on the MS |      |     |          |
| <b>Default:</b>             |       | OtherEvents                                                            |      |     |          |
| Nr                          | Label | Behaviour Description                                                  | CRef | V   | Comments |
| 1                           |       | (TCV_Res := OO_CheckUssdStringDisplayed(strg))                         |      |     |          |
| 2                           |       | [TCV_Res]                                                              |      | (P) |          |
| 3                           |       | [NOT TCV_Res]                                                          |      | (F) |          |
| <b>Detailed Comments:</b>   |       |                                                                        |      |     |          |

| Test Step Dynamic Behaviour |       |                                                             |      |   |          |
|-----------------------------|-------|-------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | PLMNsCHK                                                    |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/OperatorOP/                                 |      |   |          |
| <b>Objective:</b>           |       | To check whether the MS presents a list of available PLMNs. |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                 |      |   |          |
| Nr                          | Label | Behaviour Description                                       | CRef | V | Comments |
| 1                           |       | (TCV_Res := OO_PLMNsCHK())                                  |      |   |          |
| 2                           |       | [TCV_Res]                                                   |      | P |          |
| 3                           |       | [NOT TCV_Res]                                               |      | F |          |
| <b>Detailed Comments:</b>   |       |                                                             |      |   |          |

| Test Step Dynamic Behaviour |       |                                                     |      |     |          |
|-----------------------------|-------|-----------------------------------------------------|------|-----|----------|
| <b>Test Step Name:</b>      |       | RFtransCHK                                          |      |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/OperatorOP/                         |      |     |          |
| <b>Objective:</b>           |       | To check whether the MS transmits any radio signal. |      |     |          |
| <b>Default:</b>             |       | OtherEvents                                         |      |     |          |
| Nr                          | Label | Behaviour Description                               | CRef | V   | Comments |
| 1                           |       | (TCV_Res := OO_RFoutputCHK())                       |      |     |          |
| 2                           |       | [TCV_Res]                                           |      | F   |          |
| 3                           |       | [NOT TCV_Res]                                       |      | (P) |          |
| <b>Detailed Comments:</b>   |       |                                                     |      |     |          |

## Test Step Group Postambles

| Test Step Dynamic Behaviour                                                  |       |                                                                   |                            |   |          |
|------------------------------------------------------------------------------|-------|-------------------------------------------------------------------|----------------------------|---|----------|
| <b>Test Step Name:</b>                                                       |       | PostLinkRelEnd(ch: LOGICCH)                                       |                            |   |          |
| <b>Group:</b>                                                                |       | GSM_L3_MS_v4180/Postambles/                                       |                            |   |          |
| <b>Objective:</b>                                                            |       | To release the RR connection and bring the MS back to Idle state. |                            |   |          |
| <b>Default:</b>                                                              |       | OtherEvents                                                       |                            |   |          |
| Nr                                                                           | Label | Behaviour Description                                             | CRef                       | V | Comments |
| 1                                                                            |       | L!DL_DatRqChRel START T_release                                   | ChRel(ch,<br>ChRelease_01) |   |          |
| 2                                                                            |       | L?DL_Relln                                                        | DLRelInd_01                |   |          |
| 3                                                                            |       | CANCEL                                                            |                            | R | 1.       |
| 4                                                                            |       | ?TIMEOUT T_release                                                |                            |   |          |
| 5                                                                            |       | 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>               |       | GSM_L3_MS_v4180/Postambles/                                                    |                              |   |          |
| <b>Objective:</b>           |       | To release the main signalling link 'ch', and bring the MS back to Idle state. |                              |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                    |                              |   |          |
| Nr                          | Label | Behaviour Description                                                          | CRef                         | V | Comments |
| 1                           |       | L!DL_DatRqChRel START T_release                                                | ChRel(chnl,<br>ChRelease_01) |   |          |
| 2                           |       | L?DL_Relln 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>               |       | GSM_L3_MS_v4180/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                                                                             |                            |     |          |
| Nr                          | Label | Behaviour Description                                                                   | CRef                       | V   | Comments |
| 1                           |       | L!DL_DatRqChRel START T_release                                                         | ChRel(ch,<br>ChRelease_01) |     |          |
| 2                           |       | L?DL_Relln CANCEL T_release                                                             | DLRelInd_01                |     |          |
| 3                           |       | ?TIMEOUT T_release                                                                      |                            | (F) |          |
| <b>Detailed Comments:</b>   |       |                                                                                         |                            |     |          |



| Test Step Dynamic Behaviour |       |                                                                                                 |                            |     |          |
|-----------------------------|-------|-------------------------------------------------------------------------------------------------|----------------------------|-----|----------|
| <b>Test Step Name:</b>      |       | ChanRel_P(ch: LOGICCH)                                                                          |                            |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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                                                                                     |                            |     |          |
| Nr                          | Label | Behaviour Description                                                                           | CRef                       | V   | Comments |
| 1                           |       | L!DL_DatRqChRel START T_release                                                                 | ChRel(ch,<br>ChRelease_01) |     |          |
| 2                           |       | L?DL_Relln                                                                                      | DLRellnd_01                | (P) |          |
| 3                           |       | ?TIMEOUT T_release                                                                              |                            |     |          |
| <b>Detailed Comments:</b>   |       |                                                                                                 |                            |     |          |

| Test Step Dynamic Behaviour                                |       |                                                                   |                            |     |          |
|------------------------------------------------------------|-------|-------------------------------------------------------------------|----------------------------|-----|----------|
| <b>Test Step Name:</b>                                     |       | ChanRel_end(ch: LOGICCH)                                          |                            |     |          |
| <b>Group:</b>                                              |       | GSM_L3_MS_v4180/Postambles/                                       |                            |     |          |
| <b>Objective:</b>                                          |       | To release the RR connection and bring the MS back to Idle state. |                            |     |          |
| <b>Default:</b>                                            |       | OtherEvents                                                       |                            |     |          |
| Nr                                                         | Label | Behaviour Description                                             | CRef                       | V   | Comments |
| 1                                                          |       | L!DL_DatRqChRel START T_release                                   | ChRel(ch,<br>ChRelease_01) |     |          |
| 2                                                          |       | L?DL_Relln                                                        | DLRellnd_01                |     |          |
| 3                                                          |       | CANCEL                                                            |                            | (P) | 1.       |
| 4                                                          |       | ?TIMEOUT T_release                                                |                            |     |          |
| 5                                                          |       | CANCEL                                                            |                            | (F) | 1.       |
| <b>Detailed Comments:</b> 1. Cancel of all running timers. |       |                                                                   |                            |     |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                            |      |   |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | RmvForbiddenPlmn                                                                                                                                                                                                                                                                                                           |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Postambles/                                                                                                                                                                                                                                                                                                |      |   |          |
| <b>Objective:</b>           |       | To remove a forbidden PLMN in the list on SIM.                                                                                                                                                                                                                                                                             |      |   |          |
| <b>Default:</b>             |       | OtherEventsFail                                                                                                                                                                                                                                                                                                            |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                      | CRef | V | Comments |
| 1                           |       | +Varinit_fixB                                                                                                                                                                                                                                                                                                              |      |   |          |
| 2                           |       | +StartCellB(C_E_default, C_arfcnB, C_arfcnBd,<br>C_Immass, TCV_slot, TCV_tsc, TimingAdv(30),<br>C_TxInt_5, C_Max_1, C_NECI_0, C_ATT_0,<br>C_BABR_0, C_cch_1Comb, C_BPM_3,<br>C_T3212_1, C_MCC_1, C_PLMN_2, C_LAC_1,<br>CellChDes_04, CellChDes_03, BcchFreqLst_01,<br>BcchFreqLst_48, C_noRestablishment, C_BCC,<br>C_NCC) |      |   |          |
| 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,<br>C_LAC_1, C_norm_period_attach,<br>TimingAdv(30))                                                                                                                                                                                                                                            |      |   |          |
| 7                           |       | (TCV_Null := OO_PLMNselModeAuto())                                                                                                                                                                                                                                                                                         |      |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                                                                                            |      |   |          |

## Test Step Group Preambles

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                            |      |   |                |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------------|
| <b>Test Step Name:</b>      |       | BasicServiceMO(svc:SERVICES; rate:RATE)                                                                                                                                                    |      |   |                |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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                                                                                                                                                                      | CRef | V | Comments       |
| 1                           |       | +local_init                                                                                                                                                                                |      |   | Default values |
| 2                           |       | [TCV_Service = C_EmgCall]                                                                                                                                                                  |      |   |                |
| 3                           |       | (TCV_ChMod.mode := C_ChMod_r, TCV_Esetup := Setup_04(Bcap_Speech_MO(TCV_Rchr)), TCV_Ecall := C_Yes)                                                                                        |      |   | Emergency Call |
| 4                           |       | [TCV_Service = C_Telephony]                                                                                                                                                                |      |   |                |
| 5                           |       | (TCV_ChMod.mode := C_ChMod_r, TCV_Setup_mo := Setup_02(Bcap_Speech_MO(TCV_Rchr)))                                                                                                          |      |   | Speech         |
| 6                           |       | [TCV_Service = C_AltSpchFax]                                                                                                                                                               |      |   |                |
| 7                           |       | [rate = C_Full]                                                                                                                                                                            |      |   |                |
| 8                           |       | +TS61MO(C_AltSpchFax)                                                                                                                                                                      |      |   | Speech/fax     |
| 9                           |       | [rate <> C_Full]                                                                                                                                                                           |      | I | IXIT error     |
| 10                          |       | [TCV_Service = C_AutoFax]                                                                                                                                                                  |      |   |                |
| 11                          |       | [rate = C_Full]                                                                                                                                                                            |      |   |                |
| 12                          |       | +TS62MO(C_AutoFax)                                                                                                                                                                         |      |   | Auto fax       |
| 13                          |       | [rate <> C_Full]                                                                                                                                                                           |      | I | IXIT error     |
| 14                          |       | [TCV_Service = C_Async300]                                                                                                                                                                 |      |   |                |
| 15                          |       | +BS2xMO(C_Async300, TSPX_BS_21_sacp, TSPX_BS_21_T_NT, TSPX_BS_21_itc1, C_300bs, C_modemt_V21, TSPX_BS_21_ce)                                                                               |      |   | BS21           |
| 16                          |       | [TCV_Service = C_Async1200]                                                                                                                                                                |      |   |                |
| 17                          |       | +BS2xMO(C_Async1200, TSPX_BS_22_sacp, TSPX_BS_22_T_NT, TSPX_BS_22_itc1, C_1200bs, C_modemt_V22, TSPX_BS_22_ce)                                                                             |      |   | BS22           |
| 18                          |       | [TCV_Service = C_Async120075]                                                                                                                                                              |      |   |                |
| 19                          |       | +BS2xMO(C_Async120075, TSPX_BS_23_sacp, TSPX_BS_23_T_NT, TSPX_BS_23_itc, C_120075bs, C_modemt_V23, TSPX_BS_23_ce)                                                                          |      |   | BS23           |
| 20                          |       | [TCV_Service = C_Async2400]                                                                                                                                                                |      |   |                |
| 21                          |       | +BS2xMO(C_Async2400, TSPX_BS_24_sacp, TSPX_BS_24_T_NT, TSPX_BS_24_itc1, C_2400bs, TCV_MODEM.V22bisOrV26ter, TSPX_BS_24_ce)                                                                 |      |   | BS24           |
| 22                          |       | [TCV_Service = C_Async4800]                                                                                                                                                                |      |   |                |
| 23                          |       | +BS2xMO(C_Async4800, TSPX_BS_25_sacp, TSPX_BS_25_T_NT, TSPX_BS_25_itc1, C_4800bs, C_modemt_V32, TSPX_BS_25_ce)                                                                             |      |   | BS25           |
| 24                          |       | [TCV_Service = C_Async9600]                                                                                                                                                                |      |   |                |
| 25                          |       | +BS2xMO(C_Async9600, TSPX_BS_26_sacp, TSPX_BS_26_T_NT, TSPX_BS_26_itc1, C_9600bs, C_modemt_V32, TSPX_BS_26_ce)                                                                             |      |   | BS26           |
| 26                          |       | [TCV_Service = C_Sync1200]                                                                                                                                                                 |      |   |                |
| 27                          |       | +BS3xMO(C_Sync1200, FALSE, TSPX_BS_31_itc1, TSPX_BS_31_sacp1, C_1200bs, C_transparent, C_modemt_V22)                                                                                       |      |   | BS31           |
| 28                          |       | [TCV_Service = C_Sync2400]                                                                                                                                                                 |      |   |                |
| 29                          |       | +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.V22bisOrV26ter)                                                         |      |   | BS32           |
| 30                          |       | [TCV_Service = C_Sync4800]                                                                                                                                                                 |      |   |                |
| 31                          |       | +BS3xMO(C_Sync4800, TSPX_BS_33_X32_T_NT, TSPX_BS_33_itc1, TSPX_BS_33_sacp1, C_4800bs, TSPX_BS_33_X32_ce, C_modemt_V32)                                                                     |      |   | BS33           |
| 32                          |       | [TCV_Service = C_Sync9600]                                                                                                                                                                 |      |   |                |

|                           |                                                                                                                                                                                                                                                                                   |                                                                                                          |            |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------|
| 33                        | +BS3xMO(C_Sync9600,<br>TSPX_BS_34_X32_T_NT, TSPX_BS_34_itc1,<br>TSPX_BS_34_sacp1, C_9600bs,<br>TSPX_BS_34_X32_ce, C_modemt_V32)                                                                                                                                                   |                                                                                                          | BS34       |
| 34                        | [TCV_Service = C_PAD300]                                                                                                                                                                                                                                                          |                                                                                                          |            |
| 35                        | +BS4xMO(C_PAD300, C_300bs,<br>TSPX_BS_41_ce, TSPX_BS_41_T_NT)                                                                                                                                                                                                                     |                                                                                                          | BS41       |
| 36                        | [TCV_Service = C_PAD1200]                                                                                                                                                                                                                                                         |                                                                                                          |            |
| 37                        | +BS4xMO(C_PAD1200, C_1200bs,<br>TSPX_BS_42_ce, TSPX_BS_42_T_NT)                                                                                                                                                                                                                   |                                                                                                          | BS42       |
| 38                        | [TCV_Service = C_PAD120075]                                                                                                                                                                                                                                                       |                                                                                                          |            |
| 39                        | +BS4xMO(C_PAD120075, C_120075bs,<br>TSPX_BS_43_ce, TSPX_BS_43_T_NT)                                                                                                                                                                                                               |                                                                                                          | BS43       |
| 40                        | [TCV_Service = C_PAD2400]                                                                                                                                                                                                                                                         |                                                                                                          |            |
| 41                        | +BS4xMO(C_PAD2400, C_2400bs,<br>TSPX_BS_44_ce, TSPX_BS_44_T_NT)                                                                                                                                                                                                                   |                                                                                                          | BS44       |
| 42                        | [TCV_Service = C_PAD4800]                                                                                                                                                                                                                                                         |                                                                                                          |            |
| 43                        | +BS4xMO(C_PAD4800, C_4800bs,<br>TSPX_BS_45_ce, TSPX_BS_45_T_NT)                                                                                                                                                                                                                   |                                                                                                          | BS45       |
| 44                        | [TCV_Service = C_PAD9600]                                                                                                                                                                                                                                                         |                                                                                                          |            |
| 45                        | +BS4xMO(C_PAD9600, C_9600bs,<br>TSPX_BS_46_ce, TSPX_BS_46_T_NT)                                                                                                                                                                                                                   |                                                                                                          | BS46       |
| 46                        | [TCV_Service = C_Packet2400]                                                                                                                                                                                                                                                      |                                                                                                          |            |
| 47                        | +BS5xMO(C_Packet2400, C_2400bs)                                                                                                                                                                                                                                                   |                                                                                                          | BS51       |
| 48                        | [TCV_Service = C_Packet4800]                                                                                                                                                                                                                                                      |                                                                                                          |            |
| 49                        | +BS5xMO(C_Packet4800, C_4800bs)                                                                                                                                                                                                                                                   |                                                                                                          | BS52       |
| 50                        | [TCV_Service = C_Packet9600]                                                                                                                                                                                                                                                      |                                                                                                          |            |
| 51                        | +BS5xMO(C_Packet9600, C_9600bs)                                                                                                                                                                                                                                                   |                                                                                                          | BS53       |
| 52                        | [TCV_Service = C_AltSpchData]                                                                                                                                                                                                                                                     |                                                                                                          |            |
| 53                        | +BS61or81MO(C_AltSpchData, TSPX_BS_61_A,<br>TSPX_BS_61_A_ur1_T_NT,<br>TSPX_BS_61_A_ur1, TSPX_BS_61_A_ur1_ce,<br>TSPX_BS_61_S, TSPX_BS_61_S_ur1,<br>C_RI_alternate)                                                                                                                |                                                                                                          | BS61       |
| 54                        | [TCV_Service = C_SpchData]                                                                                                                                                                                                                                                        |                                                                                                          |            |
| 55                        | +BS61or81MO(C_SpchData, TSPX_BS_81_A,<br>TSPX_BS_81_A_ur1_T_NT,<br>TSPX_BS_81_A_ur1, TSPX_BS_81_A_ur1_ce,<br>TSPX_BS_81_S, TSPX_BS_81_S_ur1,<br>C_RI_follow)                                                                                                                      |                                                                                                          | BS81       |
| 56                        | [C_Yes]                                                                                                                                                                                                                                                                           | I                                                                                                        | IXIT error |
| 57                        | <b>local_init</b><br>(TCV_Service := svc, TCV_Rchr := C_Rchr_Full,<br>TCV_Ecall := C_No, TCV_ChRate := rate,<br>TCV_ChMod.iei := '01100011'B, TCV_ChMod.mode<br>:= C_ChMod_12k, TCV_ChModb.iei := '01100011'B,<br>TCV_ChModb.mode := C_ChMod_12k,<br>TCV_MODEM := V22bisOrV26ter) |                                                                                                          |            |
| 58                        | [TSPC_DualRate]                                                                                                                                                                                                                                                                   |                                                                                                          |            |
| 59                        | (TCV_Rchr := C_Rchr_DualForDualH)                                                                                                                                                                                                                                                 |                                                                                                          |            |
| 60                        | [NOT TSPC_DualRate]                                                                                                                                                                                                                                                               |                                                                                                          |            |
| <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>               |       | GSM_L3_MS_v4180/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                              | CRef | V | 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>               |       | GSM_L3_MS_v4180/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.<br>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                                                                                                                                                                                                                           | CRef | V | 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                                                                                                                                                                                                                                     |      |   |                |
|                             |       | <b>local_main</b>                                                                                                                                                                                                                               |      |   |                |
| 4                           |       | [TCV_Service = C_Telephony]                                                                                                                                                                                                                     |      |   |                |
| 5                           |       | (TCV_ChMod.mode := C_ChMod_r, TCV_Setup_mt := Setup_01(TL_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]                                                                                                                                                                                                                      |      |   |                |
| 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,                                                                             |      |   | BS33           |

|                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |                   |
|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|-------------------|
| 27                                                                                                                                 | TSPX_BS_33_X32_ce)                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |                   |
| 28                                                                                                                                 | [TCV_Service = C_Sync9600]<br>+BS3xMT(C_Sync9600, TSPX_BS_34_more_itc,<br>TSPX_BS_34_X32_T_NT,<br>TSPX_BS_34_more_sacp, TSPX_BS_34_itc1,<br>TSPX_BS_34_itc2, TSPX_BS_34_sacp1,<br>TSPX_BS_34_sacp2, C_9600bs,<br>TSPX_BS_34_X32_ce)                                                                                                                                                                                                                                                           |  |  | BS34              |
| 29                                                                                                                                 | [TCV_Service = C_AltSpchData]                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |                   |
| 30                                                                                                                                 | +BS61or81MT(C_AltSpchData, TSPX_BS_61_A,<br>TSPX_BS_61_A_ur1_T_NT,<br>TSPX_BS_61_A_ur2_T_NT,<br>TSPX_BS_61_A_more_ur, TSPX_BS_61_S,<br>TSPX_BS_61_S_more_ur, TSPX_BS_61_A_ur1,<br>TSPX_BS_61_A_ur2, TSPX_BS_61_S_ur1,<br>TSPX_BS_61_S_ur2, C_RI_alternate,<br>TSPX_BS_61_A_ur1_ce)                                                                                                                                                                                                            |  |  | BS61              |
| 31                                                                                                                                 | [TCV_Service = C_SpchData]                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |                   |
| 32                                                                                                                                 | +BS61or81MT(C_SpchData, TSPX_BS_81_A,<br>TSPX_BS_81_A_ur1_T_NT,<br>TSPX_BS_81_A_ur2_T_NT,<br>TSPX_BS_81_A_more_ur, TSPX_BS_81_S,<br>TSPX_BS_81_S_more_ur, TSPX_BS_81_A_ur1,<br>TSPX_BS_81_A_ur2, TSPX_BS_81_S_ur1,<br>TSPX_BS_81_S_ur2, C_RI_follow,<br>TSPX_BS_81_A_ur1_ce)                                                                                                                                                                                                                  |  |  | BS81              |
| 33                                                                                                                                 | [(TCV_Service <> C_Telephony) AND(TCV_Service<br><> C_AltSpchFax) AND(TCV_Service <> C_AutoFax)<br>AND(TCV_Service <> C_Async300)<br>AND(TCV_Service <> C_Async1200)<br>AND(TCV_Service <> C_Async2400)<br>AND(TCV_Service <> C_Async4800)<br>AND(TCV_Service <> C_Async9600)<br>AND(TCV_Service <> C_Sync1200)<br>AND(TCV_Service <> C_Sync2400)<br>AND(TCV_Service <> C_Sync4800)<br>AND(TCV_Service <> C_Sync9600)<br>AND(TCV_Service <> C_AltSpchData)<br>AND(TCV_Service <> C_SpchData)] |  |  | I                 |
| 34                                                                                                                                 | <b>local_IFsetup_Telephony</b><br>[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                                                                                                                                 | [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> GSM_L3_MS_v4180/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                            | CRef | V | 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>               |       | GSM_L3_MS_v4180/Preambles/                                                                                                                                                                                                             |      |   |                                       |
| <b>Objective:</b>           |       | To generate an MO SETUP message with appropriate Bcap and LLC for BS2x service.                                                                                                                                                        |      |   |                                       |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                            |      |   |                                       |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                  | CRef | V | Comments                              |
| 1                           |       | (TCV_srv := srv, TCV_ur := ur, TCV_CE := NT_BothT_BothNTorT_BothT_BothNT, 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 |
|                             |       | <b>local_bcap</b>                                                                                                                                                                                                                      |      |   |                                       |
| 8                           |       | [NOT both]                                                                                                                                                                                                                             |      |   |                                       |
| 9                           |       | [TCV_ce = C_nottransparent]                                                                                                                                                                                                            |      |   |                                       |
| 10                          |       | [itc1 = C_UDI]                                                                                                                                                                                                                         |      |   |                                       |
| 11                          |       | +local_BS2x_UDI_NT(C_nottransparent, sacp)                                                                                                                                                                                             |      |   |                                       |
| 12                          |       | [itc1 = C_3100Hz]                                                                                                                                                                                                                      |      |   |                                       |
| 13                          |       | +local_BS2x_3100_NT(C_nottransparent, sacp)                                                                                                                                                                                            |      |   |                                       |
| 14                          |       | [TCV_ce = C_transparent]                                                                                                                                                                                                               |      |   | CE:T only MS                          |
| 15                          |       | [itc1 = C_UDI]                                                                                                                                                                                                                         |      |   |                                       |
| 16                          |       | +local_BS2x_UDI_T(sacp)                                                                                                                                                                                                                |      |   |                                       |
| 17                          |       | [itc1 = C_3100Hz]                                                                                                                                                                                                                      |      |   |                                       |
| 18                          |       | +local_BS2x_3100_T(sacp)                                                                                                                                                                                                               |      |   |                                       |
| 19                          |       | [both]                                                                                                                                                                                                                                 |      |   |                                       |
| 20                          |       | [TCV_ce = C_transparent]                                                                                                                                                                                                               |      |   |                                       |
| 21                          |       | [itc1 = C_UDI]                                                                                                                                                                                                                         |      |   |                                       |
| 22                          |       | +local_BS2x_UDI_Tboth(TCV_CE.TorBothTorBothNT,sacp)                                                                                                                                                                                    |      |   |                                       |
| 23                          |       | [itc1 = C_3100Hz]                                                                                                                                                                                                                      |      |   | 3.1kHz                                |
| 24                          |       | +local_BS2x_3100_Tboth(TCV_CE.TorBothTorBothNT, sacp)                                                                                                                                                                                  |      |   |                                       |
| 25                          |       | [(TCV_ce = C_nottransparent)]                                                                                                                                                                                                          |      |   |                                       |
| 26                          |       | [itc1 = C_UDI]                                                                                                                                                                                                                         |      |   |                                       |
| 27                          |       | +local_BS2x_UDI_NT(TCV_CE.NTorBothTorBothNT,sacp)                                                                                                                                                                                      |      |   |                                       |
| 28                          |       | [itc1 = C_3100Hz]                                                                                                                                                                                                                      |      |   | 3.1kHz                                |
| 29                          |       | +local_BS2x_3100_NT(TCV_CE.NTorBothTorBothNT, sacp)                                                                                                                                                                                    |      |   |                                       |
|                             |       | <b>local_BS2x_3100_NT(ce: B_2; sacp:B_3)</b>                                                                                                                                                                                           |      |   |                                       |
| 30                          |       | (TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_3100Hz, C_SDUIntegrity, C_nirr_dontcare, C_no_rate_adaption, sacp, C_Asynchrous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_16kbs, C_parity_dontcare, cel, modem, C_uil2p_dontcare))        |      |   | 11.8.2.1.1.2                          |
|                             |       | <b>local_BS2x_UDI_NT(ce: B_2; sacp:B_3)</b>                                                                                                                                                                                            |      |   |                                       |
| 31                          |       | (TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_UDI, C_SDUIntegrity, C_nirr_dontcare, C_rate_adaption_V110, sacp, C_Asynchrous, 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                          |
|                             |       | <b>local_BS2x_3100_T(sacp:B_3)</b>                                                                                                                                                                                                     |      |   |                                       |
| 32                          |       | [ur = C_9600bs]                                                                                                                                                                                                                        |      |   |                                       |
| 33                          |       | (TCV_BcapMO1 := Bcap_MO(TCV_Rchr,                                                                                                                                                                                                      |      |   | 11.8.2.1.1.1                          |

|    |                                                                                                                                                                                                                                                      |                                                                                |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
|    | 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))                                                              |                                                                                |
| 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                                                                   |
|    | <b>local_BS2x_UDI_T(sacp:B_3)</b>                                                                                                                                                                                                                    |                                                                                |
| 36 | [ur = C_9600bs]                                                                                                                                                                                                                                      |                                                                                |
| 37 | (TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_UDI, C_Unstructured, C_nirr_nomeaning, C_rate_adaption_V110, sacp, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_16kbs, C_parity_dontcare, C_transparent, C_modemt_none))                     | 11.8.2.1.1.3                                                                   |
| 38 | [(ur = C_300bs) OR (ur = C_1200bs) OR (ur = C_120075bs) OR (ur = C_2400bs) OR (ur = C_4800bs)]                                                                                                                                                       |                                                                                |
| 39 | (TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_UDI, C_Unstructured, C_nirr_nomeaning, C_rate_adaption_V110, sacp, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_8kbs, C_parity_dontcare, C_transparent, C_modemt_none), TCV_ir := C_ir_8kbs) | 11.8.2.1.1.3                                                                   |
|    | <b>local_BS2x_3100_Tboth(ce1: B_2; sacp:B_3)</b>                                                                                                                                                                                                     |                                                                                |
| 40 | [ur <> C_9600bs]                                                                                                                                                                                                                                     |                                                                                |
| 41 | (TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_3100Hz, C_struct_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 combined 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_struct_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 combined with 11.8.2.1.1.2 , CE and structure without exact match |
|    | <b>local_BS2x_UDI_Tboth(ce1: B_2; sacp:B_3)</b>                                                                                                                                                                                                      |                                                                                |
| 44 | [ur = C_9600bs]                                                                                                                                                                                                                                      |                                                                                |
| 45 | (TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_UDI, C_struct_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 combined 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_struct_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 combined with 11.8.2.1.1.4, CE and structure without exact match  |
|    | <b>local_setupmsg</b>                                                                                                                                                                                                                                |                                                                                |
| 48 | [itc1 = C_UDI]                                                                                                                                                                                                                                       |                                                                                |
| 49 | (TCV_Setup_mo := Setup_10_UDI(TCV_BcapMO1, Llcmp_BS2xOrBS4x_UDI(ur, TCV_ir), Hlcmp_AnyOrOmit))                                                                                                                                                       |                                                                                |
| 50 | [itc1 = C_3100Hz]                                                                                                                                                                                                                                    |                                                                                |
| 51 | (TCV_Setup_mo := Setup_10_3100(TCV_BcapMO1,                                                                                                                                                                                                          |                                                                                |



|                                                                                                                                                                                                                                                                                   |                                                                      |   |                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|---|----------------|
|                                                                                                                                                                                                                                                                                   | Llcmp_BS2xOrBS61aOrBS81a_3100(ur, modem),<br>Hlcmp_AnyOrOmit)        |   |                |
|                                                                                                                                                                                                                                                                                   | <b>local_selectCe</b>                                                |   |                |
| 52                                                                                                                                                                                                                                                                                | [both]                                                               |   |                |
| 53                                                                                                                                                                                                                                                                                | [(ur = C_300bs) OR (ur = C_120075bs) OR (ur =<br>C_4800bs)]          |   |                |
| 54                                                                                                                                                                                                                                                                                | (TCV_ce := C_nottransparent)                                         |   |                |
| 55                                                                                                                                                                                                                                                                                | [(ur = C_1200bs) OR (ur = C_2400bs) OR (ur =<br>C_9600bs)]           |   |                |
| 56                                                                                                                                                                                                                                                                                | (TCV_ce := C_transparent)                                            |   |                |
| 57                                                                                                                                                                                                                                                                                | [NOT both]                                                           |   |                |
| 58                                                                                                                                                                                                                                                                                | (TCV_ce := ce)                                                       |   |                |
|                                                                                                                                                                                                                                                                                   | <b>local_pixitvaluechk</b>                                           |   |                |
| 59                                                                                                                                                                                                                                                                                | [(ce <> C_transparent) AND(ce <> C_nottransparent)<br>AND(NOT both)] | I | IXIT error     |
| 60                                                                                                                                                                                                                                                                                | [(itc1 <> C_UDI) AND(itc1 <> C_3100Hz)]                              | I | IXIT error     |
| 61                                                                                                                                                                                                                                                                                | [(sacp <> C_I440_450) AND(sacp <> C_X28_nond)]                       | I | IXIT error     |
| 62                                                                                                                                                                                                                                                                                | [C_Yes]                                                              |   | IXIT values OK |
| <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. |                                                                      |   |                |
| The algorithm for selecting parameters:                                                                                                                                                                                                                                           |                                                                      |   |                |
| IF (TSPX_BS_2x_T_NT)                                                                                                                                                                                                                                                              |                                                                      |   |                |
| TCV_ce := C_nottransparent                                                                                                                                                                                                                                                        |                                                                      |   |                |
| ELSE                                                                                                                                                                                                                                                                              |                                                                      |   |                |
| TCV_ce := TSPX_BS_2x_ce                                                                                                                                                                                                                                                           |                                                                      |   |                |
| use (TCV_ce, TSPX_BS_2x_itc1, TSPX_BS_2x_sacp1, svc) for OO_IFsetup_BS2xorBS3x_MO                                                                                                                                                                                                 |                                                                      |   |                |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                               |      |   |             |
|-----------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|-------------|
| <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>               |       | GSM_L3_MS_v4180/Preambles/                                                                                                                                                                                                    |      |   |             |
| <b>Objective:</b>           |       | To generate an MT SETUP message with appropriate Bcap for BS2x service.                                                                                                                                                       |      |   |             |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                   |      |   |             |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                         | CRef | V | Comments    |
| 1                           |       | +local_main                                                                                                                                                                                                                   |      |   |             |
| 2                           |       | +local_IFsetup                                                                                                                                                                                                                |      |   |             |
|                             |       | <b>local_main</b>                                                                                                                                                                                                             |      |   |             |
| 3                           |       | (TCV_srv := srv, TCV_itc := itc1)                                                                                                                                                                                             |      |   |             |
| 4                           |       | +local_bcap1                                                                                                                                                                                                                  |      |   |             |
| 5                           |       | (TCV_Setup_mt := Setup_20(TCV_BcapMT1, TI_02))                                                                                                                                                                                |      |   | 1st SETUP   |
| 6                           |       | +Chmod(TCV_ChRate, TCV_ce, ur, srv)                                                                                                                                                                                           |      |   | Ini ch mode |
| 7                           |       | +local_bcap2                                                                                                                                                                                                                  |      |   |             |
| 8                           |       | (TCV_Setup_mt1:= Setup_20(TCV_BcapMT2, TI_02), TCV_2ndtest := C_Yes)                                                                                                                                                          |      |   | 2nd SETUP   |
|                             |       | <b>local_bcap1</b>                                                                                                                                                                                                            |      |   |             |
| 9                           |       | [itc1 = C_3100Hz]                                                                                                                                                                                                             |      |   | 3.1kHz      |
| 10                          |       | [both OR (ce = C_nottransparent)]                                                                                                                                                                                             |      |   |             |
| 11                          |       | +local_BS2x_3100_NT(C_nottransparent)                                                                                                                                                                                         |      |   |             |
| 12                          |       | [NOT both AND (ce = C_transparent)]                                                                                                                                                                                           |      |   |             |
| 13                          |       | +local_BS2x_3100_T                                                                                                                                                                                                            |      |   |             |
| 14                          |       | [itc1 = C_UDI]                                                                                                                                                                                                                |      |   | UDI         |
| 15                          |       | [both OR (ce = C_nottransparent)]                                                                                                                                                                                             |      |   |             |
| 16                          |       | +local_BS2x_UDI_NT(C_nottransparent)                                                                                                                                                                                          |      |   |             |
| 17                          |       | [NOT both AND (ce = C_transparent)]                                                                                                                                                                                           |      |   |             |
| 18                          |       | +local_BS2x_UDI_T                                                                                                                                                                                                             |      |   |             |
| 19                          |       | [(itc1 <> C_3100Hz) AND(itc1 <> C_UDI)]                                                                                                                                                                                       |      | I |             |
|                             |       | <b>local_bcap2</b>                                                                                                                                                                                                            |      |   |             |
| 20                          |       | +local_itc                                                                                                                                                                                                                    |      |   |             |
| 21                          |       | +local_bcap                                                                                                                                                                                                                   |      |   |             |
| 22                          |       | (TCV_BcapMT2 := TCV_BcapMT1)                                                                                                                                                                                                  |      |   |             |
|                             |       | <b>local_itc</b>                                                                                                                                                                                                              |      |   |             |
| 23                          |       | (TCV_itc := itc1)                                                                                                                                                                                                             |      |   |             |
| 24                          |       | [more]                                                                                                                                                                                                                        |      |   | 3.1 kHz     |
| 25                          |       | (TCV_itc := itc2)                                                                                                                                                                                                             |      |   |             |
| 26                          |       | [NOT more]                                                                                                                                                                                                                    |      |   |             |
|                             |       | <b>local_bcap</b>                                                                                                                                                                                                             |      |   |             |
| 27                          |       | [both AND (TCV_itc = C_3100Hz)]                                                                                                                                                                                               |      |   |             |
| 28                          |       | +local_BS2x_3100_T                                                                                                                                                                                                            |      |   |             |
| 29                          |       | [both AND (TCV_itc = C_UDI)]                                                                                                                                                                                                  |      |   | UDI         |
| 30                          |       | +local_BS2x_UDI_T                                                                                                                                                                                                             |      |   |             |
| 31                          |       | [NOT both AND (TCV_itc = C_3100Hz)]                                                                                                                                                                                           |      |   |             |
| 32                          |       | +local_BS2x_3100_NT(C_BothT)                                                                                                                                                                                                  |      |   |             |
| 33                          |       | [NOT both AND (TCV_itc = C_UDI)]                                                                                                                                                                                              |      |   | UDI         |
| 34                          |       | +local_BS2x_UDI_NT(C_BothT)                                                                                                                                                                                                   |      |   |             |
| 35                          |       | [(TCV_itc <> C_3100Hz) AND(TCV_itc <> C_UDI)]                                                                                                                                                                                 |      | I |             |
|                             |       | <b>local_BS2x_3100_NT(ce: B_2)</b>                                                                                                                                                                                            |      |   |             |
| 36                          |       | [TSPX_TE_FLCT = C_Inband]                                                                                                                                                                                                     |      |   |             |
| 37                          |       | (TCV_BcapMT1 := BcapX_MT(C_3100Hz, C_SDUintegrity, C_nirr_nomeaning, C_no_rate_adaption, C_I440_450, C_Asynchronous, TSPX_TE_stopbit, TSPX_TE_databit, ur, C_ir_16kbs, TSPX_TE_parity, cel, modem, C_ISO6429), TCV_ce := cel) |      |   | 11.8.1.1.2  |
| 38                          |       | [TSPX_TE_FLCT = C_Nocontrol]                                                                                                                                                                                                  |      |   |             |

|    |                                                                                                                                                                                                                                                                                      |   |              |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--------------|
| 39 | (TCV_BcapMT1 := Bcap_X_MT(C_3100Hz,<br>C_SDUIegrity, C_nirr_nomeaning,<br>C_no_rate_adaption, C_I440_450,<br>C_Asynchronous, TSPX_TE_stopbit,<br>TSPX_TE_databit, ur, C_ir_16kbs,<br>TSPX_TE_parity, cel, modem, C_COPnoFLCT),<br>TCV_ce := cel)                                     |   | 11.8.1.1.1.2 |
| 40 | [(TSPX_TE_FLCT = C_Outband)<br>OR((TSPX_TE_FLCT <> C_Inband)<br>AND(TSPX_TE_FLCT <> C_Nocontrol))]                                                                                                                                                                                   | I |              |
|    | <b>local_BS2x_UDI_NT(cel: B_2)</b>                                                                                                                                                                                                                                                   |   |              |
| 41 | [TSPX_TE_FLCT = C_Outband]                                                                                                                                                                                                                                                           |   |              |
| 42 | (TCV_BcapMT1 := Bcap_MT(C_UDI,<br>C_SDUIegrity, C_nirr_nomeaning,<br>C_rate_adaption_V110, C_I440_450,<br>C_Asynchronous, TSPX_TE_stopbit,<br>TSPX_TE_databit, ur, C_ir_16kbs,<br>TSPX_TE_parity, cel, C_modemt_none), TCV_ce<br>:= cel)                                             |   | 11.8.1.1.1.4 |
| 43 | [TSPX_TE_FLCT = C_Inband]                                                                                                                                                                                                                                                            |   |              |
| 44 | (TCV_BcapMT1 := Bcap_X_MT(C_UDI,<br>C_SDUIegrity, C_nirr_nomeaning,<br>C_rate_adaption_V110, C_I440_450,<br>C_Asynchronous, TSPX_TE_stopbit,<br>TSPX_TE_databit, ur, C_ir_16kbs,<br>TSPX_TE_parity, cel, C_modemt_none,<br>C_ISO6429), TCV_ce := cel)                                |   | 11.8.1.1.1.4 |
| 45 | [TSPX_TE_FLCT = C_Nocontrol]                                                                                                                                                                                                                                                         |   |              |
| 46 | (TCV_BcapMT1 := Bcap_X_MT(C_UDI,<br>C_SDUIegrity, C_nirr_nomeaning,<br>C_rate_adaption_V110, C_I440_450,<br>C_Asynchronous, TSPX_TE_stopbit,<br>TSPX_TE_databit, ur, C_ir_16kbs,<br>TSPX_TE_parity, cel, C_modemt_none,<br>C_COPnoFLCT), TCV_ce := cel)                              |   | 11.8.1.1.1.4 |
| 47 | [(TSPX_TE_FLCT <> C_Outband)<br>AND(TSPX_TE_FLCT <> C_Inband)<br>AND(TSPX_TE_FLCT <> C_Nocontrol)]                                                                                                                                                                                   | I |              |
|    | <b>local_BS2x_3100_T</b>                                                                                                                                                                                                                                                             |   |              |
| 48 | [ur = C_9600bs]                                                                                                                                                                                                                                                                      |   |              |
| 49 | (TCV_BcapMT1 := Bcap_MT(C_3100Hz,<br>C_Unstructured, C_nirr_nomeaning,<br>C_no_rate_adaption, C_I440_450,<br>C_Asynchronous, TSPX_TE_stopbit,<br>TSPX_TE_databit, ur, C_ir_16kbs,<br>TSPX_TE_parity, C_transparent, modem),<br>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,<br>C_Unstructured, C_nirr_nomeaning,<br>C_no_rate_adaption, C_I440_450,<br>C_Asynchronous, TSPX_TE_stopbit,<br>TSPX_TE_databit, ur, C_ir_8kbs, TSPX_TE_parity,<br>C_transparent, modem), TCV_itc2 := C_3100Hz,<br>TCV_ce := C_transparent)         |   | 11.8.1.1.1.1 |
|    | <b>local_BS2x_UDI_T</b>                                                                                                                                                                                                                                                              |   |              |
| 52 | [ur = C_9600bs]                                                                                                                                                                                                                                                                      |   |              |
| 53 | (TCV_BcapMT1 := Bcap_MT(C_UDI,<br>C_Unstructured, C_nirr_nomeaning,<br>C_rate_adaption_V110, C_I440_450,<br>C_Asynchronous, TSPX_TE_stopbit,<br>TSPX_TE_databit, ur, C_ir_16kbs,<br>TSPX_TE_parity, C_transparent,<br>C_modemt_none), TCV_itc2 := C_UDI, TCV_ce :=<br>C_transparent) |   | 11.8.1.1.1.3 |
| 54 | [ur <> C_9600bs]                                                                                                                                                                                                                                                                     |   |              |
| 55 | (TCV_BcapMT1 := Bcap_MT(C_UDI,<br>C_Unstructured, C_nirr_nomeaning,<br>C_rate_adaption_V110, C_I440_450,<br>C_Asynchronous, TSPX_TE_stopbit,                                                                                                                                         |   | 11.8.1.1.1.3 |

|    |                                                                                                                                  |   |                 |
|----|----------------------------------------------------------------------------------------------------------------------------------|---|-----------------|
|    | TSPX_TE_databit, ur, C_ir_8kbs, TSPX_TE_parity,<br>C_transparent, C_modemt_none), TCV_itc2 :=<br>C_UDI, TCV_ce := C_transparent) |   |                 |
|    | <b>local_IFsetup</b>                                                                                                             |   |                 |
| 56 | [TCV_supported]                                                                                                                  |   |                 |
| 57 | (TCV_Null := OO_IFsetup_BS2x_MT(TCV_srv,<br>TCV_itc))                                                                            |   |                 |
| 58 | [NOT TCV_supported]                                                                                                              |   |                 |
| 59 | [TCV_SpecialCase]                                                                                                                |   |                 |
| 60 | START T_dly(C_T_Wait)                                                                                                            |   |                 |
| 61 | ?TIMEOUT T_dly                                                                                                                   |   |                 |
| 62 | [NOT TCV_SpecialCase]                                                                                                            | I | Parameter error |

**Detailed Comments:**

The algorithm for derivation of BS2x Bearer Capabilities :

The Bearer Capability for 1st SETUP (used for an MT call):

itc= TSPX\_BS\_2x\_itc1

IF itc=3.1kHz

IF TSPX\_BS\_2x\_T\_MT OR (NOT TSPX\_BS\_2x\_T\_MT AND (TSPX\_BS\_2x\_ce = NT))

use coding of sec. 11.8.1.1.2 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 with (ce=T)

ELSE IF itc=udi

IF TSPX\_BS\_2x\_T\_MT OR (NOT TSPX\_BS\_2x\_T\_MT AND (TSPX\_BS\_2x\_ce = NT))

use coding of sec. 11.8.1.1.4 with (ce=NT)

ELSE IF NOT TSPX\_BS\_2x\_T\_MT AND (TSPX\_BS\_2x\_ce = T)

use coding of sec. 11.8.1.1.3 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 with (ce=T)

IF itc=udi use coding of sec. 11.8.1.1.3 with (ce=T)

ELSE

IF itc=3.1Khz use coding of sec. 11.8.1.1.2 with (ce=both/T)

IF itc=udi use coding of sec. 11.8.1.1.4 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>               |       | GSM_L3_MS_v4180/Preambles/                                                                                                       |      |   |                                       |
| <b>Objective:</b>           |       | To generate an MO SETUP message with appropriate Bcap and LLC for BS3x service.                                                  |      |   |                                       |
| <b>Default:</b>             |       | OtherEvents                                                                                                                      |      |   |                                       |
| Nr                          | Label | Behaviour Description                                                                                                            | CRef | V | Comments                              |
| 1                           |       | (TCV_srv := srv, TCV_ur := ur, TCV_CE := NT_BothT_BothNTorT_BothT_BothNT, 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 |
|                             |       | <b>local_bcap</b>                                                                                                                |      |   |                                       |
| 8                           |       | [NOT both]                                                                                                                       |      |   |                                       |
| 9                           |       | [TCV_ce = C_nottransparent]                                                                                                      |      |   |                                       |
| 10                          |       | [itc1 = C_UDI]                                                                                                                   |      |   |                                       |
| 11                          |       | [sacp1 = C_X32]                                                                                                                  |      |   |                                       |
| 12                          |       | +local_BS3x_UDI_X32_NT                                                                                                           |      |   |                                       |
| 13                          |       | [sacp1 <> C_X32]                                                                                                                 |      | I | 5.                                    |
| 14                          |       | [itc1 = C_3100Hz]                                                                                                                |      |   |                                       |
| 15                          |       | [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                          |       | [sacp1 = C_X32]                                                                                                                  |      | I | 7.                                    |
| 21                          |       | [sacp1 <> C_X32]                                                                                                                 |      |   |                                       |
| 22                          |       | +local_BS3x_UDI_T(sacp1)                                                                                                         |      |   |                                       |
| 23                          |       | [itc1 = C_3100Hz]                                                                                                                |      |   |                                       |
| 24                          |       | [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                                                                                                           |      |   |                                       |
| 29                          |       | [both]                                                                                                                           |      |   |                                       |
| 30                          |       | [TCV_ce = C_transparent]                                                                                                         |      |   |                                       |
| 31                          |       | [itc1 = C_UDI]                                                                                                                   |      |   |                                       |
| 32                          |       | [sacp1 = C_X32]                                                                                                                  |      | I | 7.                                    |
| 33                          |       | [sacp1 <> C_X32]                                                                                                                 |      |   |                                       |
| 34                          |       | +local_BS3x_UDI_T(sacp1)                                                                                                         |      |   |                                       |
| 35                          |       | [itc1 = C_3100Hz]                                                                                                                |      |   | 3.1kHz                                |
| 36                          |       | [sacp1 = C_X21]                                                                                                                  |      | I | 8.                                    |
| 37                          |       | [sacp1 = C_I440_450]                                                                                                             |      |   |                                       |
| 38                          |       | +local_BS3x_3100_T                                                                                                               |      |   |                                       |
| 39                          |       | [sacp1 = C_X32]                                                                                                                  |      |   |                                       |
| 40                          |       | +local_BS3x_3100_X32_NT(TCV_CE.TorBothTorBothNT)                                                                                 |      |   |                                       |
| 41                          |       | [(TCV_ce = C_nottransparent)]                                                                                                    |      |   |                                       |
| 42                          |       | [itc1 = C_UDI]                                                                                                                   |      |   |                                       |
| 43                          |       | [sacp1 = C_X32]                                                                                                                  |      |   |                                       |
| 44                          |       | +local_BS3x_UDI_X32_NT                                                                                                           |      |   |                                       |
| 45                          |       | [sacp1 <> C_X32]                                                                                                                 |      | I | 5.                                    |
| 46                          |       | [itc1 = C_3100Hz]                                                                                                                |      |   | 3.1kHz                                |
| 47                          |       | [sacp1 <> C_X32]                                                                                                                 |      | I | 6.                                    |
| 48                          |       | [sacp1 = C_X32]                                                                                                                  |      |   |                                       |
| 49                          |       | +local_BS3x_3100_X32_Tboth(TCV_CE.NToBothTorBothNT)                                                                              |      |   |                                       |

|    |                                                                                                                                                                                                                                                                                        |              |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
|    | <b>local_setupmsg</b>                                                                                                                                                                                                                                                                  |              |
| 50 | [itc1 = C_UDI]                                                                                                                                                                                                                                                                         |              |
| 51 | (TCV_Setup_mo := Setup_10_UDI(<br>TCV_BcapMO1, Llcmp_BS3x_UDI(TCV_uil1p,<br>TCV_ur, TCV_ir), Hlcmp_AnyOrOmit))                                                                                                                                                                         |              |
| 52 | [itc1 = C_3100Hz]                                                                                                                                                                                                                                                                      |              |
| 53 | (TCV_Setup_mo := Setup_10_3100(<br>TCV_BcapMO1,<br>Llcmp_BS3xOrBS61sOrBS81s_3100(modem),<br>Hlcmp_AnyOrOmit))                                                                                                                                                                          |              |
|    | <b>local_BS3x_3100_T</b>                                                                                                                                                                                                                                                               |              |
| 54 | [ur = C_9600bs]                                                                                                                                                                                                                                                                        |              |
| 55 | (TCV_BcapMO1 := Bcap_MO(TCV_Rchr,<br>C_3100Hz, C_Unstructured, C_nirr_nomeaning,<br>C_no_rate_adaption, C_I440_450,<br>C_Synchronous, C_stopbit_NA, C_databit_NA, ur,<br>C_ir_16kbs, C_parity_NA, C_transparent, modem))                                                               | 11.8.2.2.1.1 |
| 56 | [ur <> C_9600bs]                                                                                                                                                                                                                                                                       |              |
| 57 | (TCV_BcapMO1 := Bcap_MO(TCV_Rchr,<br>C_3100Hz, C_Unstructured, C_nirr_nomeaning,<br>C_no_rate_adaption, C_I440_450,<br>C_Synchronous, C_stopbit_NA, C_databit_NA, ur,<br>C_ir_8kbs, C_parity_NA, C_transparent, modem))                                                                | 11.8.2.2.1.1 |
|    | <b>local_BS3x_UDI_T(sacp:B_3)</b>                                                                                                                                                                                                                                                      |              |
| 58 | [ur = C_9600bs]                                                                                                                                                                                                                                                                        |              |
| 59 | (TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_UDI,<br>C_Unstructured, C_nirr_nomeaning,<br>C_rate_adaption_V110, sacp, C_Synchronous,<br>C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs,<br>C_parity_NA, C_transparent, C_modemt_none),<br>TCV_uil1p := C_rate_adaption_V110)                        | 11.8.2.2.1.2 |
| 60 | [NOT (ur = C_9600bs)]                                                                                                                                                                                                                                                                  |              |
| 61 | (TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_UDI,<br>C_Unstructured, C_nirr_nomeaning,<br>C_rate_adaption_V110, sacp, C_Synchronous,<br>C_stopbit_NA, C_databit_NA, ur, C_ir_8kbs,<br>C_parity_NA, C_transparent, C_modemt_none),<br>TCV_ir := C_ir_8kbs, TCV_uil1p :=<br>C_rate_adaption_V110) | 11.8.2.2.1.2 |
|    | <b>local_BS3x_3100_X32_T</b>                                                                                                                                                                                                                                                           |              |
| 62 | [ur = C_9600bs]                                                                                                                                                                                                                                                                        |              |
| 63 | (TCV_BcapMO1 := Bcap_MO(TCV_Rchr,<br>C_3100Hz, C_Unstructured, C_nirr_nomeaning,<br>C_no_rate_adaption, C_X32, C_Synchronous,<br>C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs,<br>C_parity_NA, C_transparent, modem))                                                                    | 11.8.2.2.1.3 |
| 64 | [ur <> C_9600bs]                                                                                                                                                                                                                                                                       |              |
| 65 | (TCV_BcapMO1 := Bcap_MO(TCV_Rchr,<br>C_3100Hz, C_Unstructured, C_nirr_nomeaning,<br>C_no_rate_adaption, C_X32, C_Synchronous,<br>C_stopbit_NA, C_databit_NA, ur, C_ir_8kbs,<br>C_parity_NA, C_transparent, modem))                                                                     | 11.8.2.2.1.3 |
|    | <b>local_BS3x_3100_X32_NT(ce2:B_2)</b>                                                                                                                                                                                                                                                 |              |
| 66 | (TCV_BcapMO1 := BcapX_MO(TCV_Rchr,<br>C_3100Hz, C_SDUintegrity, C_nirr_dontcare,<br>C_no_rate_adaption, C_X32, C_Synchronous,<br>C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs,<br>C_parity_NA, ce2, modem, C_X25_fct))                                                                   | 11.8.2.2.1.4 |
|    | <b>local_BS3x_UDI_X32_NT</b>                                                                                                                                                                                                                                                           |              |
| 67 | (TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_UDI,<br>C_SDUintegrity, C_nirr_dontcare,<br>C_rate_adaption_X31, C_X32, C_Synchronous,<br>C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs,<br>C_parity_NA, C_notransparent, C_modemt_none,<br>C_X25_fct), TCV_uil1p := C_rate_adaption_X31)            | 11.8.2.2.1.5 |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                            |   |  |                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--|--------------------------------------------------------------------------------------------|
| 68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>local_BS3x_3100_X32_Tboth(ce2:B_2)</b>                                                                                                                                                                                                  |   |  |                                                                                            |
| 69                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | [ur = C_9600bs]<br>(TCV_BcapMO1 := BcapX_MO(TCV_Rchr,<br>C_3100Hz, C_struct_dontchk, C_nirr_nomeaning,<br>C_no_rate_adaption, C_X32, C_Synchronous,<br>C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs,<br>C_parity_NA, ce2, modem, C_X25_fct)) |   |  | 11.8.2.2.1.3 combined<br>with 11.8.2.2.1.4, CE and<br>structure without exact<br>match     |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | [ur <> C_9600bs]                                                                                                                                                                                                                           |   |  |                                                                                            |
| 71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (TCV_BcapMO1 := BcapX_MO(TCV_Rchr,<br>C_3100Hz, C_struct_dontchk, C_nirr_dontcare,<br>C_no_rate_adaption, C_X32, C_Synchronous,<br>C_stopbit_NA, C_databit_NA, ur, C_ir_8or16kbs,<br>C_parity_NA, ce2, modem, C_X25_fct))                  |   |  | 11.8.2.2.1.3 combined<br>with 11.8.2.2.1.4, CE, IR<br>and structure without<br>exact match |
| 72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>local_selectCe</b>                                                                                                                                                                                                                      |   |  |                                                                                            |
| 73                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | [both]                                                                                                                                                                                                                                     |   |  |                                                                                            |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | [(ur = C_300bs) OR (ur = C_120075bs) OR (ur =<br>C_4800bs)]                                                                                                                                                                                |   |  |                                                                                            |
| 75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (TCV_ce := C_transparent)                                                                                                                                                                                                                  |   |  |                                                                                            |
| 76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | [(ur = C_1200bs) OR (ur = C_2400bs) OR (ur =<br>C_9600bs)]                                                                                                                                                                                 |   |  |                                                                                            |
| 77                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (TCV_ce := C_nottransparent)                                                                                                                                                                                                               |   |  |                                                                                            |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | [NOT both]<br>(TCV_ce := ce)                                                                                                                                                                                                               |   |  |                                                                                            |
| 79                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>local_pixitvaluechk</b><br>[(ce <> C_transparent) AND(ce <> C_nottransparent)<br>AND(NOT both)]                                                                                                                                         | I |  | IXIT error                                                                                 |
| 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | [(itc1 <> C_UDI) AND(itc1 <> C_3100Hz)]                                                                                                                                                                                                    | I |  | IXIT error                                                                                 |
| 81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | [(sacp1 <> C_I440_450) AND(sacp1 <> C_X21)<br>AND(sacp1 <> C_X32)]                                                                                                                                                                         | I |  | IXIT error                                                                                 |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | [(ur = C_1200bs) AND (sacp1 = C_X32)]                                                                                                                                                                                                      | I |  | 4.                                                                                         |
| 83                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | [C_Yes]                                                                                                                                                                                                                                    |   |  | IXIT values OK, but<br>combination not checked<br>yet                                      |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                            |   |  |                                                                                            |
| <p>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.</p> <p>2. validate IXIT values.</p> <p>3. generate SETUP.</p> <p>4. IXIT error, BS31 does not support X32.</p> <p>5. IXIT error, UDI non-X32 case has no non transparent mode.</p> <p>6. IXIT error, 3.1kHz non-X32 case has no non transparent mode.</p> <p>7. IXIT error, UDI X32 case has no transparent mode.</p> <p>8. IXIT error, 3.1kHz case has no X21 signalling access protocol.</p> <p>The algorithm for selecting parameters:</p> <pre>IF (TSPX_BS_3x_T_NT)     TCV_ce := C_nottransparent ELSE     TCV_ce := TSPX_BS_3x_ce</pre> <p>use (TCV_ce, TSPX_BS_3x_itc1, TSPX_BS_3x_sacp1, svc) for OO_IFsetup_BS2xorBS3x_MO</p> |                                                                                                                                                                                                                                            |   |  |                                                                                            |

| Test Step Dynamic Behaviour |       |                                                                                                                        |      |   |              |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------|------|---|--------------|
| <b>Test Step Name:</b>      |       | BS3xMT(srv:SERVICES; more_itc, both, more_sacp:BOOLEAN; itc1, itc2, sacp1, sacp2:B_3; ur:B_4; ce:B_2)                  |      |   |              |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Preambles/                                                                                             |      |   |              |
| <b>Objective:</b>           |       | To generate an MT SETUP message with appropriate Bcap for BS3x service.                                                |      |   |              |
| <b>Default:</b>             |       | OtherEvents                                                                                                            |      |   |              |
| Nr                          | Label | Behaviour Description                                                                                                  | CRef | V | Comments     |
| 1                           |       | +local_main                                                                                                            |      |   |              |
| 2                           |       | +local_IFsetup                                                                                                         |      |   |              |
|                             |       | <b>local_main</b>                                                                                                      |      |   |              |
| 3                           |       | (TCV_srv := srv, TCV_ur := ur, TCV_ur2 := ur,<br>TCV_ce := C_transparent)                                              |      |   |              |
| 4                           |       | +local_bcap1                                                                                                           |      |   |              |
| 5                           |       | (TCV_BcapMT1 := TCV_BcapMT2)                                                                                           |      |   |              |
| 6                           |       | [more_itc OR more_sacp OR (itc1 = C_3100Hz)<br>AND (sacp1 = C_X32)]                                                    |      |   |              |
| 7                           |       | [more_itc]                                                                                                             |      |   |              |
| 8                           |       | +local_bcap2                                                                                                           |      |   |              |
| 9                           |       | (TCV_Setup_mt1 := Setup_20(<br>TCV_BcapMT2, TI_02), TCV_2ndtest :=<br>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(<br>TCV_BcapMT2, TI_02),<br>TCV_2ndtest := C_Yes,<br>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(<br>TCV_BcapMT2, TI_02),<br>TCV_2ndtest := C_Yes,<br>TCV_sacp2 := sacp1)                    |      |   | 2nd SETUP    |
| 21                          |       | [(sacp1 <> C_I440_450) AND(sacp1<br><> C_X32)]                                                                         |      | I |              |
| 22                          |       | [itc1 = C_UDI]                                                                                                         |      |   |              |
| 23                          |       | [more_sacp]                                                                                                            |      |   |              |
| 24                          |       | +local_UDI(sacp2)                                                                                                      |      |   |              |
| 25                          |       | (TCV_Setup_mt1 := Setup_20(<br>TCV_BcapMT2, TI_02), TCV_2ndtest<br>:= C_Yes, TCV_sacp2 := sacp2,<br>TCV_itc2 := C_UDI) |      |   | 2nd SETUP    |
| 26                          |       | [NOT more_sacp]                                                                                                        |      |   | no second BC |
| 27                          |       | [(NOT more_itc) AND(NOT more_sacp) AND<br>((NOT(itc1=C_3100Hz)) OR<br>(NOT(sacp1=C_X32)))]                             |      |   |              |
|                             |       | <b>local_bcap1</b>                                                                                                     |      |   |              |
| 28                          |       | [itc1 = C_3100Hz]                                                                                                      |      |   |              |
| 29                          |       | +local_3100(sacp1)                                                                                                     |      |   |              |
| 30                          |       | (TCV_itc := C_3100Hz, TCV_sacp := sacp1)                                                                               |      |   |              |
| 31                          |       | (TCV_Setup_mt := Setup_20(TCV_BcapMT2,<br>TI_02), TCV_sacp := sacp1)                                                   |      |   | 1st SETUP    |
| 32                          |       | +Chmod(TCV_ChRate, TCV_ce, ur, srv)                                                                                    |      |   |              |
| 33                          |       | [itc1 = C_UDI]                                                                                                         |      |   |              |
| 34                          |       | +local_UDI(sacp1)                                                                                                      |      |   |              |
| 35                          |       | (TCV_Setup_mt := Setup_20(TCV_BcapMT2,<br>TI_02), TCV_sacp := sacp1, TCV_itc := C_UDI)                                 |      |   |              |
| 36                          |       | [sacp1 = C_X32]                                                                                                        |      |   |              |
| 37                          |       | +Chmod(TCV_ChRate, C_nottransparent, ur,<br>srv)                                                                       |      |   |              |



|    |                                                                                                                                                                              |   |                      |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------------------|
| 38 | [NOT (sacp1 = C_X32)]                                                                                                                                                        |   |                      |
| 39 | +Chmod(TCV_ChRate, TCV_ce, ur, srv)                                                                                                                                          |   |                      |
| 40 | [(itc1 <> C_3100Hz) AND(itc1 <> C_UDI)]                                                                                                                                      | I |                      |
|    | <b>local_bcap2</b>                                                                                                                                                           |   |                      |
| 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)]                                                                                                                                      | I |                      |
|    | <b>local_3100(sacp:B_3)</b>                                                                                                                                                  |   |                      |
| 57 | [sacp = C_I440_450]                                                                                                                                                          |   |                      |
| 58 | +local_BS3x_3100                                                                                                                                                             |   |                      |
| 59 | [sacp = C_X32]                                                                                                                                                               |   |                      |
| 60 | [NOT (ur= C_1200bs)]                                                                                                                                                         |   |                      |
| 61 | [both OR (ce = C_nottransparent)]                                                                                                                                            |   |                      |
| 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 | [ur= C_1200bs]                                                                                                                                                               | I | BS31 not support X32 |
| 67 | [(sacp <> C_I440_450) AND(sacp <> C_X32)]                                                                                                                                    | I |                      |
|    | <b>local_3100_1(sacp:B_3)</b>                                                                                                                                                |   |                      |
| 68 | [sacp = C_I440_450]                                                                                                                                                          |   |                      |
| 69 | +local_BS3x_3100                                                                                                                                                             |   |                      |
| 70 | [sacp = C_X32]                                                                                                                                                               |   |                      |
| 71 | +local_BS3x_3100_X32_NT(C_BothT)                                                                                                                                             |   |                      |
| 72 | [(sacp <> C_I440_450) AND(sacp <> C_X32)]                                                                                                                                    | I |                      |
|    | <b>local_UDI(sacp:B_3)</b>                                                                                                                                                   |   |                      |
| 73 | [sacp = C_I440_450]                                                                                                                                                          |   |                      |
| 74 | [ur = C_9600bs]                                                                                                                                                              |   |                      |
| 75 | +ltree_BS3x_UDI_I440_T(C_ir_16kbs)                                                                                                                                           |   |                      |
| 76 | [ur <> C_9600bs]                                                                                                                                                             |   |                      |
| 77 | +ltree_BS3x_UDI_I440_T(C_ir_8kbs)                                                                                                                                            |   |                      |
| 78 | [sacp = C_X21]                                                                                                                                                               |   |                      |
| 79 | [ur = C_9600bs]                                                                                                                                                              |   |                      |
| 80 | +ltree_BS3x_UDI_X21_T(C_ir_16kbs)                                                                                                                                            |   |                      |
| 81 | [ur <> C_9600bs]                                                                                                                                                             |   |                      |
| 82 | +ltree_BS3x_UDI_X21_T(C_ir_8kbs)                                                                                                                                             |   |                      |
| 83 | [sacp = C_X32]                                                                                                                                                               |   |                      |
| 84 | [ur <> C_1200bs]                                                                                                                                                             |   |                      |
| 85 | +ltree_BS3x_UDI_X32_NT                                                                                                                                                       |   |                      |
| 86 | [ur = C_1200bs]                                                                                                                                                              | I |                      |
| 87 | [(sacp <> C_I440_450) AND(sacp <> C_X21)<br>AND(sacp <> C_X32)]                                                                                                              | I |                      |
|    | <b>ltree_BS3x_3100_T(ir:B_2; modemt:B_5)</b>                                                                                                                                 |   |                      |
| 88 | (TCV_BcapMT2 := Bcap_MT(C_3100Hz,<br>C_Unstructured, C_nirr_nomeaning,<br>C_no_rate_adaption, C_I440_450, C_Synchronous,<br>C_stopbit_NA, C_databit_NA, ur, ir, C_parity_NA, |   | 11.8.1.2.1.1         |

|     |                                                                                                                                                                                                                                                                                                                                                                                     |              |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
|     | C_transparent, modemt))                                                                                                                                                                                                                                                                                                                                                             |              |
| 89  | <p><b>Itree_BS3x_UDI_I440_T(ir:B_2)</b><br/>                 (TCV_BcapMT2 := Bcap_MT(C_UDI,<br/>                 C_Unstructured, C_nirr_nomeaning,<br/>                 C_rate_adaption_V110, C_I440_450,<br/>                 C_Synchronous, C_stopbit_NA, C_databit_NA, ur, ir,<br/>                 C_parity_NA, C_transparent, C_modemt_none))</p>                              | 11.8.1.2.1.2 |
| 90  | <p><b>Itree_BS3x_UDI_X21_T(ir:B_2)</b><br/>                 (TCV_BcapMT2 := Bcap_MT(C_UDI,<br/>                 C_Unstructured, C_nirr_nomeaning,<br/>                 C_rate_adaption_V110, C_X21, C_Synchronous,<br/>                 C_stopbit_NA, C_databit_NA, ur, ir, C_parity_NA,<br/>                 C_transparent, C_modemt_none))</p>                                    | 11.8.1.2.1.2 |
| 91  | <p><b>Itree_BS3x_3100_X32_T(ir:B_2; modemt:B_5)</b><br/>                 (TCV_BcapMT2 := Bcap_MT(C_3100Hz,<br/>                 C_Unstructured, C_nirr_nomeaning,<br/>                 C_no_rate_adaption, C_X32, C_Synchronous,<br/>                 C_stopbit_NA, C_databit_NA, ur, ir, C_parity_NA,<br/>                 C_transparent, modemt))</p>                             | 11.8.1.2.1.3 |
| 92  | <p><b>Itree_BS3x_3100_X32_NT(modemt:B_5; ce1:B_2)</b><br/>                 (TCV_BcapMT2 := BcapX_MT(C_3100Hz,<br/>                 C_SDUintegrity, C_nirr_nomeaning,<br/>                 C_no_rate_adaption, C_X32, C_Synchronous,<br/>                 C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs,<br/>                 C_parity_NA, ce1, modemt, C_X25_fct))</p>                 | 11.8.1.2.1.4 |
| 93  | <p><b>Itree_BS3x_UDI_X32_NT</b><br/>                 (TCV_BcapMT2 := BcapX_MT(C_UDI,<br/>                 C_SDUintegrity, C_nirr_nomeaning,<br/>                 C_rate_adaption_X31, C_X32, C_Synchronous,<br/>                 C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs,<br/>                 C_parity_NA, C_notransparent, C_modemt_none,<br/>                 C_X25_fct))</p> | 11.8.1.2.1.5 |
| 94  | <b>local_BS3x_3100</b>                                                                                                                                                                                                                                                                                                                                                              |              |
| 95  | [ur = C_1200bs]                                                                                                                                                                                                                                                                                                                                                                     |              |
| 96  | +ltree_BS3x_3100_T(C_ir_8kbs, C_modemt_V22)                                                                                                                                                                                                                                                                                                                                         |              |
| 97  | [ur = C_2400bs]                                                                                                                                                                                                                                                                                                                                                                     |              |
| 98  | +ltree_BS3x_3100_T(C_ir_8kbs,<br>C_modemt_V22bis)                                                                                                                                                                                                                                                                                                                                   |              |
| 99  | [ur = C_4800bs]                                                                                                                                                                                                                                                                                                                                                                     |              |
| 100 | +ltree_BS3x_3100_T(C_ir_8kbs, C_modemt_V32)                                                                                                                                                                                                                                                                                                                                         |              |
| 101 | [ur = C_9600bs]                                                                                                                                                                                                                                                                                                                                                                     |              |
| 102 | +ltree_BS3x_3100_T(C_ir_16kbs, C_modemt_V32)                                                                                                                                                                                                                                                                                                                                        |              |
| 102 | [(ur <> C_1200bs) AND(ur <> C_2400bs) AND(ur <><br>C_4800bs) AND(ur <> C_9600bs)]                                                                                                                                                                                                                                                                                                   | I            |
| 103 | <b>local_BS3x_3100_X32_NT(ce2:B_2)</b>                                                                                                                                                                                                                                                                                                                                              |              |
| 104 | [ur = C_2400bs]                                                                                                                                                                                                                                                                                                                                                                     |              |
| 105 | +ltree_BS3x_3100_X32_NT(C_modemt_V22bis,<br>ce2)                                                                                                                                                                                                                                                                                                                                    |              |
| 106 | [(ur = C_4800bs) OR (ur = C_9600bs)]                                                                                                                                                                                                                                                                                                                                                |              |
| 107 | +ltree_BS3x_3100_X32_NT(C_modemt_V32, ce2)                                                                                                                                                                                                                                                                                                                                          |              |
| 107 | [(ur <> C_2400bs) AND(ur <> C_4800bs) AND(ur <><br>C_9600bs)]                                                                                                                                                                                                                                                                                                                       | I            |
| 108 | <b>local_BS3x_3100_X32_T</b>                                                                                                                                                                                                                                                                                                                                                        |              |
| 109 | [ur = C_2400bs]                                                                                                                                                                                                                                                                                                                                                                     |              |
| 110 | +ltree_BS3x_3100_X32_T(C_ir_8kbs,<br>C_modemt_V22bis)                                                                                                                                                                                                                                                                                                                               |              |
| 111 | [ur = C_4800bs]                                                                                                                                                                                                                                                                                                                                                                     |              |
| 112 | +ltree_BS3x_3100_X32_T(C_ir_8kbs,<br>C_modemt_V32)                                                                                                                                                                                                                                                                                                                                  |              |
| 113 | [ur = C_9600bs]                                                                                                                                                                                                                                                                                                                                                                     |              |
| 113 | +ltree_BS3x_3100_X32_T(C_ir_16kbs,                                                                                                                                                                                                                                                                                                                                                  |              |

|     |                                                                             |  |   |                 |
|-----|-----------------------------------------------------------------------------|--|---|-----------------|
| 114 | C_modemt_V32)<br>[(ur <> C_2400bs) AND(ur <> C_4800bs) AND(ur <> C_9600bs)] |  | I |                 |
| 115 | <b>local_IFsetup</b><br>[TCV_supported]                                     |  |   |                 |
| 116 | (TCV_Null := OO_IFsetup_BS3x_MT(TCV_srv,<br>TCV_itc, TCV_sacp))             |  |   |                 |
| 117 | [NOT TCV_supported]                                                         |  |   |                 |
| 118 | [TCV_SpecialCase]                                                           |  |   |                 |
| 119 | START T_dly(C_T_Wait)                                                       |  |   |                 |
| 120 | ?TIMEOUT T_dly                                                              |  |   |                 |
| 121 | [NOT TCV_SpecialCase]                                                       |  | I | Parameter error |

**Detailed Comments:**

The algorithm for derivation of BS3x Bearer Capabilities :

The Bearer Capability for 1st SETUP (used for an MT call):

itc= TSPX\_BS\_3x\_itc1

sacp= TSPX\_BS\_3x\_sacp1

IF itc= 3.1Khz

IF sacp= I440 use coding of sec. 11.8.1.2.1.1 with (ce=T)

IF sacp= X32

IF TSPX\_BS\_3x\_T\_NT OR (TSPX\_BS\_3x\_ce = NT)

use coding of sec. 11.8.1.2.1.4 with (ce= NT)

IF NOT TSPX\_BS\_3x\_T\_NT AND (TSPX\_BS\_3x\_ce = T)

use coding of sec. 11.8.1.2.1.3 with (ce= T)

IF itc=udi

IF sacp= I440 use coding of sec. 11.8.1.2.1.2 with (ce=T)

IF sacp= X21 use coding of sec. 11.8.1.2.1.2 with (ce=T)

IF sacp= X32 use coding of sec. 11.8.1.2.1.5 with (ce=NT)

The derived 2nd Bearer Capability for 2nd SETUP (used for TC\_11\_1\_ only):

Note: the 2nd BC is derived only IF

TSPX\_BS\_3x\_more\_itc OR TSPX\_BS\_3x\_more\_sacp OR

((TSPX\_BS\_3x\_itc1 = 3.1kHz) AND (TSPX\_BS\_3x\_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)

IF sacp= X32 use coding of sec. 11.8.1.2.1.5 with (ce=NT)

ELSE

itc= TSPX\_BS\_3x\_itc1

IF itc= 3.1kHz

IF TSPX\_BS\_3x\_more\_sacp

sacp= TSPX\_BS\_3x\_sacp2

IF sacp= I440

use coding of sec. 11.8.1.2.1.1 with (ce=T)

IF sacp= X32

use coding of sec. 11.8.1.2.1.4 with (ce=both/T)

ELSE

sacp= TSPX\_BS\_3x\_sacp1

IF sacp= I440 no second Bearer Capability

```
 IF sacp= X32 use coding of sec. 11.8.1.2.1.4 with (ce=both/T)
IF itc= udi
 IF TSP_BS_3x_more_sacp
 sacp= TSPX_BS_3x_sacp2
 IF sacp= I440 use coding of sec. 11.8.1.2.1.2 with (ce=T)
 IF sacp= X21 use coding of sec. 11.8.1.2.1.2 with (ce=T)
 IF sacp= X32 use coding of sec. 11.8.1.2.1.5 with (ce=NT)
 ELSE
 sacp= TSPX_BS_3x_sacp1
 IF sacp=I440 no second Bearer Capability
 IF sacp=X21 no second Bearer Capability
 IF sacp= X32 no second Bearer Capability
```

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                 |      |   |                                    |
|-----------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|------------------------------------|
| <b>Test Step Name:</b>      |       | BS4xMO(srv:SERVICES; ur:B_4; ce:B_2; both:BOOLEAN)                                                                                                                                                                                              |      |   |                                    |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Preambles/                                                                                                                                                                                                                      |      |   |                                    |
| <b>Objective:</b>           |       | To generate an MO SETUP message with appropriate Bcap and LLC for BS4x service.                                                                                                                                                                 |      |   |                                    |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                                     |      |   |                                    |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                           | CRef | V | Comments                           |
| 1                           |       | (TCV_srv := srv, TCV_ur := ur, TCV_CE := NT_BothT_BothNTorT_BothT_BothNT, 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(ur, TCV_ir), 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 |
|                             |       | <b>local_bcap</b>                                                                                                                                                                                                                               |      |   |                                    |
| 8                           |       | [NOT both]                                                                                                                                                                                                                                      |      |   |                                    |
| 9                           |       | [TCV_ce = C_nottransparent]                                                                                                                                                                                                                     |      |   |                                    |
| 10                          |       | +local_BS4x_UDI_NT(C_nottransparent)                                                                                                                                                                                                            |      |   |                                    |
| 11                          |       | [TCV_ce = C_transparent]                                                                                                                                                                                                                        |      |   | CE:T only MS                       |
| 12                          |       | [ur = C_9600bs]                                                                                                                                                                                                                                 |      |   |                                    |
| 13                          |       | +local_BS4x_UDI_T(C_ir_16kbs)                                                                                                                                                                                                                   |      |   |                                    |
| 14                          |       | [(ur = C_300bs) OR (ur = C_1200bs) OR (ur = C_120075bs) OR (ur = C_2400bs) OR (ur = C_4800bs)]                                                                                                                                                  |      |   |                                    |
| 15                          |       | +local_BS4x_UDI_T(C_ir_8kbs)                                                                                                                                                                                                                    |      |   |                                    |
| 16                          |       | [both]                                                                                                                                                                                                                                          |      |   |                                    |
| 17                          |       | [TCV_ce = C_transparent]                                                                                                                                                                                                                        |      |   |                                    |
| 18                          |       | +local_BS4x_UDI_Tboth(TCV_CE.TorBothTorBothNT)                                                                                                                                                                                                  |      |   |                                    |
| 19                          |       | [(TCV_ce = C_nottransparent)]                                                                                                                                                                                                                   |      |   |                                    |
| 20                          |       | +local_BS4x_UDI_NT(TCV_CE.NTorBothTorBothNT)                                                                                                                                                                                                    |      |   |                                    |
|                             |       | <b>local_BS4x_UDI_T(ir:B_2)</b>                                                                                                                                                                                                                 |      |   |                                    |
| 21                          |       | (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                       |
|                             |       | <b>local_BS4x_UDI_NT(ce1:B_2)</b>                                                                                                                                                                                                               |      |   |                                    |
| 22                          |       | [(ur = C_300bs) OR (ur = C_1200bs) OR (ur = C_120075bs) OR (ur = C_2400bs) OR (ur = C_4800bs)]                                                                                                                                                  |      |   |                                    |
| 23                          |       | (TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_UDI, C_SDUintegrity, C_nirr_dontcare, C_rate_adaption_V110, C_X28_unui, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_16kbs, C_parity_dontcare, ce1, C_modemt_none, C_uil2p_dontcare))  |      |   | 11.8.2.3.1.2                       |
| 24                          |       | [ur = C_9600bs]                                                                                                                                                                                                                                 |      |   |                                    |
| 25                          |       | (TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_UDI, C_SDUintegrity, C_nirr_nomeaning, C_rate_adaption_V110, C_X28_unui, C_Asynchronous, C_stopbit_dontcare, C_databit_dontcare, ur, C_ir_16kbs, C_parity_dontcare, ce1, C_modemt_none, C_uil2p_dontcare)) |      |   | 11.8.2.3.1.2                       |
|                             |       | <b>local_BS4x_UDI_Tboth(ce1:B_2)</b>                                                                                                                                                                                                            |      |   |                                    |

|    |                                                                                                                                                                                                                                                     |   |                                                                                   |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------|
| 26 | [[ur = C_300bs) OR (ur = C_1200bs) OR (ur = C_120075bs) OR (ur = C_2400bs) OR (ur = C_4800bs)]                                                                                                                                                      |   |                                                                                   |
| 27 | (TCV_BcapMO1 := 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))  |   | 11.8.2.3.1.2 combined with 11.8.2.3.1.1, CE, IR and structure without exact match |
| 28 | [ur = C_9600bs]                                                                                                                                                                                                                                     |   |                                                                                   |
| 29 | (TCV_BcapMO1 := 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)) |   | 11.8.2.3.1.2 combined with 11.8.2.3.1.1, CE, IR and structure without exact match |
| 30 | <b>local_pixitvaluechk</b><br>[(ce <> C_transparent) AND(ce <> C_nottransparent) AND(NOT both)]                                                                                                                                                     | I | IXIT error                                                                        |
| 31 | [C_Yes]                                                                                                                                                                                                                                             |   | IXIT values OK                                                                    |
| 32 | <b>local_selectCe</b><br>[both]                                                                                                                                                                                                                     |   |                                                                                   |
| 33 | [[ur = C_300bs) OR (ur = C_120075bs) OR (ur = C_4800bs)]                                                                                                                                                                                            |   |                                                                                   |
| 34 | (TCV_ce := C_nottransparent)                                                                                                                                                                                                                        |   |                                                                                   |
| 35 | [[ur = C_1200bs) OR (ur = C_2400bs) OR (ur = C_9600bs)]                                                                                                                                                                                             |   |                                                                                   |
| 36 | (TCV_ce := C_transparent)                                                                                                                                                                                                                           |   |                                                                                   |
| 37 | [NOT both]                                                                                                                                                                                                                                          |   |                                                                                   |
| 38 | (TCV_ce := ce)                                                                                                                                                                                                                                      |   |                                                                                   |

**Detailed Comments:** The BS4x Bearer Capabilities and SETUP messages for MO is constructed according to section 11.8.2.3.1.1 and section 11.8.2.3.1.2 of GSM 11.10 and section B.1.4 and section B.2.2.1 of GSM 07.01.

The algorithm for selecting parameters:  
 IF (TSPX\_BS\_4x\_T\_NT)  
     IF (user rate is one of the C\_300bs, C\_120075bs, C\_4800bs)  
         TCV\_ce := C\_nottransparent  
     ELSE /\* user rate is one of C\_1200bs, C\_2400bs, C\_9600bs \

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                              |      |   |              |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|--------------|
| <b>Test Step Name:</b>      |       | BS5xMO(srv:SERVICES; ur:B_4)                                                                                                                                                                                                 |      |   |              |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Preambles/                                                                                                                                                                                                   |      |   |              |
| <b>Objective:</b>           |       | To generate an MO SETUP message with appropriate Bcap for BS5x service.                                                                                                                                                      |      |   |              |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                  |      |   |              |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                        | CRef | V | Comments     |
| 1                           |       | (TCV_srv := srv, TCV_ur := ur)                                                                                                                                                                                               |      |   |              |
| 2                           |       | (TCV_BcapMO1 := BcapX_MO(TCV_Rchr, C_UDI, C_SDUintegrity, C_nirr_nomeaning, C_rate_adaption_X31, C_X32, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs, C_parity_NA, C_notransparent, C_modemt_none, C_X25_flct)) |      |   | 11.8.2.4.1   |
| 3                           |       | (TCV_Setup_mo := Setup_10_UDI(TCV_BcapMO1, Llcmp_BS5x(ur), Hlcmp_AnyOrOmit))                                                                                                                                                 |      |   |              |
| 4                           |       | +Chmod(TCV_ChRate, C_notransparent, ur, srv)                                                                                                                                                                                 |      |   | channel mode |
| 5                           |       | (TCV_Null := OO_IFsetup_BS5x_MO(TCV_srv, TCV_ur, TCV_ChRate))                                                                                                                                                                |      |   |              |
| <b>Detailed Comments:</b>   |       | 1. Bearer Capability is coded according to section 11.8.2.4.1 of GSM 11.10 ver 4.16<br>2. low layer compatibility is coded according to section B.2.5 of GSM 07.01 ver 4.90                                                  |      |   |              |

| 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>               |       | GSM_L3_MS_v4180/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                                                                                                                                                                                                                                                       |      |   |                |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                             | CRef | V | Comments       |
| 1                           |       | (TCV_srv := srv, TCV_CE := NT_BothT_BothNTorT_BothT_BothNT, TCV_ir := C_ir_8kbs, TCV_MODEM := V22bisOrV26ter)                                                                                                                                                     |      |   |                |
| 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))                                                                                                                                                                               |      |   |                |
|                             |       | <b>local_bcap</b>                                                                                                                                                                                                                                                 |      |   |                |
| 8                           |       | [TCV_sa = C_Synchronous]                                                                                                                                                                                                                                          |      |   |                |
| 9                           |       | [TCV_ur = C_1200bs]                                                                                                                                                                                                                                               |      |   |                |
| 10                          |       | +local_BS61or81_S_T(C_ir_8kbs, C_1200bs, C_modemt_V22)                                                                                                                                                                                                            |      |   |                |
| 11                          |       | [TCV_ur = C_2400bs]                                                                                                                                                                                                                                               |      |   |                |
| 12                          |       | +local_BS61or81_S_T(C_ir_8kbs, C_2400bs, TCV_MODEM.V22bisOrV26ter)                                                                                                                                                                                                |      |   |                |
| 13                          |       | [TCV_ur = C_4800bs]                                                                                                                                                                                                                                               |      |   |                |
| 14                          |       | +local_BS61or81_S_T(C_ir_8kbs, C_4800bs, C_modemt_V32)                                                                                                                                                                                                            |      |   |                |
| 15                          |       | [TCV_ur = C_9600bs]                                                                                                                                                                                                                                               |      |   |                |
| 16                          |       | +local_BS61or81_S_T(C_ir_16kbs, C_9600bs, C_modemt_V32)                                                                                                                                                                                                           |      |   |                |
| 17                          |       | (TCV_ir := C_ir_16kbs)                                                                                                                                                                                                                                            |      |   |                |
| 18                          |       | [TCV_sa = C_Asynchronous]                                                                                                                                                                                                                                         |      |   |                |
| 19                          |       | [(TCV_ce = C_transparent) AND(NOT both)]                                                                                                                                                                                                                          |      |   | CE:T only MS   |
| 20                          |       | +local_BS61or81_A_T(TCV_ur)                                                                                                                                                                                                                                       |      |   |                |
| 21                          |       | [(TCV_ce = C_nottransparent) AND(NOT both)]                                                                                                                                                                                                                       |      |   | CE:NT only MS  |
| 22                          |       | +local_BS61or81_A_NT(TCV_ur, C_nottransparent, C_SDUintegrity, C_nirr_dontcare, C_ir_16kbs)                                                                                                                                                                       |      |   |                |
| 23                          |       | [(TCV_ce = C_nottransparent) AND both]                                                                                                                                                                                                                            |      |   |                |
| 24                          |       | +local_BS61or81_A_NT(TCV_ur, TCV_CE.NTorBothTorBothNT, C_SDUintegrity, C_nirr_dontcare, C_ir_16kbs)                                                                                                                                                               |      |   |                |
| 25                          |       | [(TCV_ce = C_transparent) AND both]                                                                                                                                                                                                                               |      |   |                |
| 26                          |       | +local_BS61or81_A_NT(TCV_ur, TCV_CE.TorBothTorBothNT, C_struc_dontchk, C_nirr_dontcare, C_ir_8or16kbs)                                                                                                                                                            |      |   |                |
|                             |       | <b>local_BS61or81_A_T(ur:B_4)</b>                                                                                                                                                                                                                                 |      |   |                |
| 27                          |       | [ur = C_300bs]                                                                                                                                                                                                                                                    |      |   |                |
| 28                          |       | (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, C_modemt_V21), TCV_modemt := C_modemt_V21) |      |   | 11.8.2.5.1     |
| 29                          |       | [ur = C_1200bs]                                                                                                                                                                                                                                                   |      |   |                |
| 30                          |       | (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,                                            |      |   | 11.8.2.5.1     |



|    |                                                                                                                                                                                                                                                                                                                |            |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
|    | C_modemt_V22), TCV_modemt :=<br>C_modemt_V22)                                                                                                                                                                                                                                                                  |            |
| 31 | [ur = C_120075bs]                                                                                                                                                                                                                                                                                              |            |
| 32 | (TCV_BcapMO1 := Bcap_MO(TCV_Rchr,<br>C_3100Hz, C_Unstructured, C_nirr_nomeaning,<br>C_no_rate_adaption, C_I440_450,<br>C_Asynchronous, C_stopbit_dontcare,<br>C_databit_dontcare, ur, C_ir_8kbs,<br>C_parity_dontcare, C_transparent,<br>C_modemt_V23), TCV_modemt :=<br>C_modemt_V23)                         | 11.8.2.5.1 |
| 33 | [ur = C_2400bs]                                                                                                                                                                                                                                                                                                |            |
| 34 | (TCV_BcapMO1 := Bcap_MO(TCV_Rchr,<br>C_3100Hz, C_Unstructured, C_nirr_nomeaning,<br>C_no_rate_adaption, C_I440_450,<br>C_Asynchronous, C_stopbit_dontcare,<br>C_databit_dontcare, ur, C_ir_8kbs,<br>C_parity_dontcare, C_transparent,<br>TCV_MODEM.V22bisOrV26ter), TCV_modemt :=<br>TCV_MODEM.V22bisOrV26ter) | 11.8.2.5.1 |
| 35 | [ur = C_4800bs]                                                                                                                                                                                                                                                                                                |            |
| 36 | (TCV_BcapMO1 := Bcap_MO(TCV_Rchr,<br>C_3100Hz, C_Unstructured, C_nirr_nomeaning,<br>C_no_rate_adaption, C_I440_450,<br>C_Asynchronous, C_stopbit_dontcare,<br>C_databit_dontcare, ur, C_ir_8kbs,<br>C_parity_dontcare, C_transparent,<br>C_modemt_V32), TCV_modemt :=<br>C_modemt_V32)                         | 11.8.2.5.1 |
| 37 | [ur = C_9600bs]                                                                                                                                                                                                                                                                                                |            |
| 38 | (TCV_BcapMO1 := Bcap_MO(TCV_Rchr,<br>C_3100Hz, C_Unstructured, C_nirr_nomeaning,<br>C_no_rate_adaption, C_I440_450,<br>C_Asynchronous, C_stopbit_dontcare,<br>C_databit_dontcare, ur, C_ir_16kbs,<br>C_parity_dontcare, C_transparent,<br>C_modemt_V32), TCV_modemt :=<br>C_modemt_V32)                        | 11.8.2.5.1 |
| 39 | (TCV_ir := C_ir_16kbs)                                                                                                                                                                                                                                                                                         |            |
|    | <b>local BS61or81_A_NT(ur:B_4; ce:B_2; struc:B_2;<br/>nirr :B_1; ir:B_2)</b>                                                                                                                                                                                                                                   |            |
| 40 | (TCV_ir := C_ir_16kbs)                                                                                                                                                                                                                                                                                         |            |
| 41 | [ur = C_300bs]                                                                                                                                                                                                                                                                                                 |            |
| 42 | (TCV_BcapMO1 := BcapX_MO(TCV_Rchr,<br>C_3100Hz, struc, nirr, C_no_rate_adaption,<br>C_I440_450, C_Asynchronous,<br>C_stopbit_dontcare, C_databit_dontcare, ur, ir,<br>C_parity_dontcare, ce, C_modemt_V21,<br>C_uil2p_dontcare), TCV_modemt :=<br>C_modemt_V21)                                                | 11.8.2.5.2 |
| 43 | [ur = C_1200bs]                                                                                                                                                                                                                                                                                                |            |
| 44 | (TCV_BcapMO1 := BcapX_MO(TCV_Rchr,<br>C_3100Hz, struc, nirr, C_no_rate_adaption,<br>C_I440_450, C_Asynchronous,<br>C_stopbit_dontcare, C_databit_dontcare, ur, ir,<br>C_parity_dontcare, ce, C_modemt_V22,<br>C_uil2p_dontcare), TCV_modemt :=<br>C_modemt_V22)                                                | 11.8.2.5.2 |
| 45 | [ur = C_120075bs]                                                                                                                                                                                                                                                                                              |            |
| 46 | (TCV_BcapMO1 := BcapX_MO(TCV_Rchr,<br>C_3100Hz, struc, nirr, C_no_rate_adaption,<br>C_I440_450, C_Asynchronous,<br>C_stopbit_dontcare, C_databit_dontcare, ur, ir,<br>C_parity_dontcare, ce, C_modemt_V23,<br>C_uil2p_dontcare), TCV_modemt :=<br>C_modemt_V23)                                                | 11.8.2.5.2 |
| 47 | [ur = C_2400bs]                                                                                                                                                                                                                                                                                                |            |
| 48 | (TCV_BcapMO1 := BcapX_MO(TCV_Rchr,<br>C_3100Hz, struc, nirr, C_no_rate_adaption,<br>C_I440_450, C_Asynchronous,<br>C_stopbit_dontcare, C_databit_dontcare, ur, ir,<br>C_parity_dontcare, ce,<br>TCV_MODEM.V22bisOrV26ter,                                                                                      | 11.8.2.5.2 |

|                                                   |                                                                                                                                                                                                                                                                                                       |   |                |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------------|
| 49                                                | C_uil2p_dontcare), TCV_modemt :=<br>TCV_MODEM.V22bisOrV26ter)                                                                                                                                                                                                                                         |   |                |
| 50                                                | [ur = C_4800bs]<br>(TCV_BcapMO1 := BcapX_MO(TCV_Rchr,<br>C_3100Hz, struc, nirr, C_no_rate_adaption,<br>C_I440_450, C_Asynchronous,<br>C_stopbit_dontcare, C_databit_dontcare, ur, ir,<br>C_parity_dontcare, ce, C_modemt_V32,<br>C_uil2p_dontcare), TCV_modemt :=<br>C_modemt_V32)                    |   | 11.8.2.5.2     |
| 51                                                | [ur = C_9600bs]                                                                                                                                                                                                                                                                                       |   |                |
| 52                                                | (TCV_BcapMO1 := BcapX_MO(TCV_Rchr,<br>C_3100Hz, struc, C_nirr_nomeaning,<br>C_no_rate_adaption, C_I440_450,<br>C_Asynchronous, C_stopbit_dontcare,<br>C_databit_dontcare, ur, C_ir_16kbs,<br>C_parity_dontcare, ce, C_modemt_V32,<br>C_uil2p_dontcare), TCV_modemt :=<br>C_modemt_V32)                |   | 11.8.2.5.2     |
| 53                                                | <b>local_BS61or81_S_T(ir:B_2; ur: B_4;<br/>modemt:B_5)</b><br>(TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_3100Hz,<br>C_Unstructured, C_nirr_nomeaning,<br>C_no_rate_adaption, C_I440_450, C_Synchronous,<br>C_stopbit_NA, C_databit_NA, ur, ir, C_parity_NA,<br>C_transparent, modemt), TCV_modemt := modemt) |   | 11.8.2.5.3     |
| 54                                                | <b>local_pixitvaluechk</b><br>[(ce <> C_transparent) AND(ce <> C_nottransparent)<br>AND(NOT both) AND async]                                                                                                                                                                                          | I | IXIT error     |
| 55                                                | [(a_ur1 <> C_300bs) AND(a_ur1 <> C_1200bs)<br>AND(a_ur1 <> C_2400bs) AND(a_ur1 <> C_4800bs)<br>AND(a_ur1 <> C_9600bs) AND(a_ur1 <><br>C_120075bs) AND async]                                                                                                                                          | I | IXIT error     |
| 56                                                | [(s_ur1 <> C_1200bs) AND(s_ur1 <> C_2400bs)<br>AND(s_ur1 <> C_4800bs) AND(s_ur1 <> C_9600bs)<br>AND sync]                                                                                                                                                                                             | I | IXIT error     |
| 57                                                | [C_Yes]                                                                                                                                                                                                                                                                                               |   | IXIT values OK |
| 58                                                | <b>local_selectSaAndCe</b><br>[async]                                                                                                                                                                                                                                                                 |   | 3.             |
| 59                                                | (TCV_sa := C_Asynchronous, TCV_ur := a_ur1)                                                                                                                                                                                                                                                           |   |                |
| 60                                                | [both]                                                                                                                                                                                                                                                                                                |   |                |
| 61                                                | [(a_ur1 = C_300bs) OR (a_ur1 = C_120075bs)<br>OR (a_ur1 = C_4800bs)]                                                                                                                                                                                                                                  |   |                |
| 62                                                | (TCV_ce := C_nottransparent)                                                                                                                                                                                                                                                                          |   |                |
| 63                                                | [(a_ur1 = C_1200bs) OR (a_ur1 = C_2400bs)<br>OR (a_ur1 = C_9600bs)]                                                                                                                                                                                                                                   |   |                |
| 64                                                | (TCV_ce := C_transparent)                                                                                                                                                                                                                                                                             |   |                |
| 65                                                | [NOT both]                                                                                                                                                                                                                                                                                            |   |                |
| 66                                                | (TCV_ce := ce)                                                                                                                                                                                                                                                                                        |   |                |
| 67                                                | [sync]                                                                                                                                                                                                                                                                                                |   |                |
| 68                                                | (TCV_sa := C_Synchronous, TCV_ce :=<br>C_transparent, TCV_ur := s_ur1)                                                                                                                                                                                                                                |   |                |
| 69                                                | <b>local_setupmsg</b><br>[TCV_sa = C_Asynchronous]                                                                                                                                                                                                                                                    |   |                |
| 70                                                | (TCV_Setup_mo := Setup_11_3100(ri,<br>Bcap_Speech_MO(C_Rchr_dontcare),<br>TCV_BcapMO1, Llcmp_NotApplicable,<br>Llcmp_BS2xOrBS61aOrBS81a_3100(TCV_ur,<br>TCV_modemt), ri, ri, Hlcmp_NotApplicable,<br>Hlcmp_AnyOrOmit))                                                                                |   |                |
| 71                                                | [TCV_sa = C_Synchronous]                                                                                                                                                                                                                                                                              |   |                |
| 72                                                | (TCV_Setup_mo := Setup_11_3100(ri,<br>Bcap_Speech_MO(C_Rchr_dontcare),<br>TCV_BcapMO1, Llcmp_NotApplicable,<br>Llcmp_BS3xOrBS61sOrBS81s_3100(TCV_modemt<br>, ri, ri, Hlcmp_NotApplicable, Hlcmp_AnyOrOmit))                                                                                           |   |                |
| <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, select the asynchronous mode
4. The BS61 or BS81 Bearer Capabilities and SETUP messages for MO is constructed according to section 11.8.2.5.1, section 11.8.2.5.2 and section 11.8.2.5.3 of GSM 11.10 and section B.1.6.1, section B.1.6.2.1, section B.1.6.2.2, section B.2.2.2 and section B.2.3.2 of GSM 07.01.

The algorithm for selecting parameters for BS61 basic 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
```

The algorithm for selecting parameters for BS61 basic service is the same as above except using corresponding IXIT parameters.

| Test Step Dynamic Behaviour |       |                                                                                                                                          |      |   |             |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------|------|---|-------------|
| <b>Test Step Name:</b>      |       | 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) |      |   |             |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Preambles/                                                                                                               |      |   |             |
| <b>Objective:</b>           |       | To get a MT SETUP message with right BC IE for BS61 or BS81 service.                                                                     |      |   |             |
| <b>Default:</b>             |       | OtherEvents                                                                                                                              |      |   |             |
| Nr                          | Label | Behaviour Description                                                                                                                    | CRef | V | Comments    |
| 1                           |       | +local_main                                                                                                                              |      |   |             |
| 2                           |       | +local_IFsetup                                                                                                                           |      |   |             |
|                             |       | <b>local_main</b>                                                                                                                        |      |   |             |
| 3                           |       | (TCV_srv := srv)                                                                                                                         |      |   |             |
| 4                           |       | (TCV_BcapMT1 := Bcap_Speech_MT)                                                                                                          |      |   |             |
| 5                           |       | [async]                                                                                                                                  |      |   | If asynchro |
| 6                           |       | +local_bcapa                                                                                                                             |      |   |             |
| 7                           |       | (TCV_Setup_mt := Setup_21(ri, TCV_BcapMT1, TCV_BcapMT2, TI_02), TCV_ur := a_ur1, TCV_sa := C_Asynchronous)                               |      |   | 1st SETUP   |
| 8                           |       | +Chmod(TCV_ChRate, TCV_ce, a_ur1, srv)                                                                                                   |      |   | 2nd ch mode |
| 9                           |       | (TCV_ChMod.mode := C_ChMod_r)                                                                                                            |      |   | Speech mode |
| 10                          |       | [sync]                                                                                                                                   |      |   |             |
| 11                          |       | +local_bcap2S(s_ur1)                                                                                                                     |      |   |             |
| 12                          |       | (TCV_Setup_mt1 := Setup_21(ri, TCV_BcapMT1, TCV_BcapMT2, TI_02), TCV_2ndtest :=C_Yes, TCV_ur2 := s_ur1, TCV_sa2 := C_Synchronous)        |      |   | 2nd SETUP   |
| 13                          |       | [a_more_ur]                                                                                                                              |      |   |             |
| 14                          |       | [t_nt_ur2]                                                                                                                               |      |   |             |
| 15                          |       | +local_bcap2A(a_ur2, C_transparent)                                                                                                      |      |   |             |
| 16                          |       | (TCV_Setup_mt1 := Setup_21(ri, TCV_BcapMT1, TCV_BcapMT2, TI_02), TCV_2ndtest :=C_Yes, TCV_ur2 := a_ur2, TCV_sa2 := C_Asynchronous)       |      |   | 2nd SETUP   |
| 17                          |       | [NOT t_nt_ur2]                                                                                                                           |      |   |             |
| 18                          |       | +local_bcap2A(a_ur2, C_BothT)                                                                                                            |      |   |             |
| 19                          |       | (TCV_Setup_mt1 := Setup_21(ri, TCV_BcapMT1, TCV_BcapMT2, TI_02), TCV_2ndtest :=C_Yes, TCV_ur2 := a_ur2, TCV_sa2 := C_Asynchronous)       |      |   | 2nd SETUP   |
| 20                          |       | [NOT a_more_ur]                                                                                                                          |      |   |             |
| 21                          |       | [t_nt_ur1]                                                                                                                               |      |   |             |
| 22                          |       | +local_bcap2A(a_ur1, C_transparent)                                                                                                      |      |   |             |
| 23                          |       | (TCV_Setup_mt1 := Setup_21(ri, TCV_BcapMT1, TCV_BcapMT2, TI_02), TCV_2ndtest := C_Yes, TCV_ur2 := a_ur1, TCV_sa2 := C_Asynchronous)      |      |   | 2nd SETUP   |
| 24                          |       | [NOT t_nt_ur1]                                                                                                                           |      |   |             |
| 25                          |       | +local_bcap2A(a_ur1, C_BothT)                                                                                                            |      |   |             |
| 26                          |       | (TCV_Setup_mt1 := Setup_21(ri, TCV_BcapMT1, TCV_BcapMT2, TI_02), TCV_2ndtest := C_Yes, TCV_ur2 := a_ur1, TCV_sa2 := C_Asynchronous)      |      |   | 2nd SETUP   |
| 27                          |       | [sync]                                                                                                                                   |      |   | If synchro  |
| 28                          |       | +local_bcap2S(s_ur1)                                                                                                                     |      |   |             |
| 29                          |       | (TCV_Setup_mt := Setup_21(ri, TCV_BcapMT1, TCV_BcapMT2, TI_02), TCV_ur := s_ur1, TCV_sa := C_Synchronous)                                |      |   | 1st SETUP   |
| 30                          |       | +Chmod(TCV_ChRate, C_transparent, s_ur1, srv)                                                                                            |      |   | 2nd ch mode |
| 31                          |       | (TCV_ChMod.mode := C_ChMod_r)                                                                                                            |      |   | Speech mode |
| 32                          |       | [s_more_ur]                                                                                                                              |      |   |             |

|    |                                                                                                                                               |   |              |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------|---|--------------|
| 33 | +local_bcap2S(s_ur2)                                                                                                                          |   |              |
| 34 | (TCV_Setup_mt1 := Setup_21(ri,<br>TCV_BcapMT1, TCV_BcapMT2,<br>TI_02), TCV_2ndtest :=C_Yes,<br>TCV_ur2 := s_ur1, TCV_sa2 :=<br>C_Synchronous) |   | 2nd SETUP    |
| 35 | [NOT s_more_ur]                                                                                                                               |   | no second BC |
|    | <b>local_bcap2A(ur:B_4; ce2: B_2)</b>                                                                                                         |   |              |
| 36 | [ce2 = C_transparent]                                                                                                                         |   |              |
| 37 | [ur = C_300bs]                                                                                                                                |   |              |
| 38 | +local_BS61or81_A_T(C_ir_8kbs, ur,<br>C_modemt_V21)                                                                                           |   |              |
| 39 | [ur = C_1200bs]                                                                                                                               |   |              |
| 40 | +local_BS61or81_A_T(C_ir_8kbs, ur,<br>C_modemt_V22)                                                                                           |   |              |
| 41 | [ur = C_2400bs]                                                                                                                               |   |              |
| 42 | +local_BS61or81_A_T(C_ir_8kbs, ur,<br>C_modemt_V22bis)                                                                                        |   |              |
| 43 | [ur = C_4800bs]                                                                                                                               |   |              |
| 44 | +local_BS61or81_A_T(C_ir_8kbs, ur,<br>C_modemt_V32)                                                                                           |   |              |
| 45 | [ur = C_9600bs]                                                                                                                               |   |              |
| 46 | +local_BS61or81_A_T(C_ir_16kbs, ur,<br>C_modemt_V32)                                                                                          |   |              |
| 47 | [(ur <> C_300bs) AND(ur <> C_1200bs) AND(ur <><br>C_2400bs) AND(ur <> C_4800bs) AND(ur <><br>C_9600bs)]                                       | I |              |
| 48 | [ce2 = C_BothNT]                                                                                                                              |   |              |
| 49 | [ur = C_300bs]                                                                                                                                |   |              |
| 50 | +local_BS61or81_A_NT(ur, C_modemt_V21,<br>C_BothNT)                                                                                           |   |              |
| 51 | [ur = C_1200bs]                                                                                                                               |   |              |
| 52 | +local_BS61or81_A_NT(ur, C_modemt_V22,<br>C_BothNT)                                                                                           |   |              |
| 53 | [ur = C_2400bs]                                                                                                                               |   |              |
| 54 | +local_BS61or81_A_NT(ur, C_modemt_V22bis,<br>C_BothNT)                                                                                        |   |              |
| 55 | [ur = C_4800bs]                                                                                                                               |   |              |
| 56 | +local_BS61or81_A_NT(ur, C_modemt_V32,<br>C_BothNT)                                                                                           |   |              |
| 57 | [ur = C_9600bs]                                                                                                                               |   |              |
| 58 | +local_BS61or81_A_NT(ur, C_modemt_V32,<br>C_BothNT)                                                                                           |   |              |
| 59 | [(ur <> C_300bs) AND(ur <> C_1200bs) AND(ur <><br>C_2400bs) AND(ur <> C_4800bs) AND(ur <><br>C_9600bs)]                                       | I |              |
| 60 | [ce2 = C_nottransparent]                                                                                                                      |   |              |
| 61 | [ur = C_300bs]                                                                                                                                |   |              |
| 62 | +local_BS61or81_A_NT(ur, C_modemt_V21,<br>C_nottransparent)                                                                                   |   |              |
| 63 | [ur = C_1200bs]                                                                                                                               |   |              |
| 64 | +local_BS61or81_A_NT(ur, C_modemt_V22,<br>C_nottransparent)                                                                                   |   |              |
| 65 | [ur = C_2400bs]                                                                                                                               |   |              |
| 66 | +local_BS61or81_A_NT(ur, C_modemt_V22bis,<br>C_nottransparent)                                                                                |   |              |
| 67 | [ur = C_4800bs]                                                                                                                               |   |              |
| 68 | +local_BS61or81_A_NT(ur, C_modemt_V32,<br>C_nottransparent)                                                                                   |   |              |
| 69 | [ur = C_9600bs]                                                                                                                               |   |              |
| 70 | +local_BS61or81_A_NT(ur, C_modemt_V32,<br>C_nottransparent)                                                                                   |   |              |
| 71 | [(ur <> C_300bs) AND(ur <> C_1200bs) AND(ur <><br>C_2400bs) AND(ur <> C_4800bs) AND(ur <><br>C_9600bs)]                                       | I |              |
| 72 | [(ce2 <> C_nottransparent) AND(ce2 <> C_BothNT)<br>AND (ce2 = C_transparent)]                                                                 | I |              |

|                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |                                                           |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------|
| <p>73<br/>74<br/>75<br/>76<br/>77<br/>78<br/>79<br/>80<br/>81</p> | <p><b>local_bcap2S(ur:B_4)</b><br/>                 [ur = C_1200bs]<br/>                 +local_BS61or81_S_T(C_ir_8kbs, ur,<br/>                 C_modemt_V22)<br/>                 [ur = C_2400bs]<br/>                 +local_BS61or81_S_T(C_ir_8kbs, ur,<br/>                 C_modemt_V22bis)<br/>                 [ur = C_4800bs]<br/>                 +local_BS61or81_S_T(C_ir_8kbs, ur,<br/>                 C_modemt_V32)<br/>                 [ur = C_9600bs]<br/>                 +local_BS61or81_S_T(C_ir_16kbs, ur,<br/>                 C_modemt_V32)<br/>                 [(ur &lt;&gt; C_1200bs) AND(ur &lt;&gt; C_2400bs) AND(ur &lt;&gt;<br/>                 C_4800bs) AND(ur &lt;&gt; C_9600bs)]</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <p>I</p> |                                                           |
| <p>82<br/>83<br/>84<br/>85<br/>86<br/>87<br/>88</p>               | <p><b>local_BS61or81_A_T(ir:B_2; ur:B_4; modemt:B_5)</b><br/>                 [TSPX_TE_FLCT = C_Outband]<br/>                 (TCV_BcapMT2 := Bcap_MT(C_3100Hz,<br/>                 C_Unstructured, C_nirr_nomeaning,<br/>                 C_no_rate_adaption, C_I440_450,<br/>                 C_Asynchronous, TSPX_TE_stopbit,<br/>                 TSPX_TE_databit, ur, ir, TSPX_TE_parity,<br/>                 C_transparent, modemt))<br/>                 [TSPX_TE_FLCT = C_Inband]<br/>                 (TCV_BcapMT2 := BcapX_MT(C_3100Hz,<br/>                 C_Unstructured, C_nirr_nomeaning,<br/>                 C_no_rate_adaption, C_I440_450,<br/>                 C_Asynchronous, TSPX_TE_stopbit,<br/>                 TSPX_TE_databit, ur, ir, TSPX_TE_parity,<br/>                 C_transparent, modemt, C_ISO6429))<br/>                 [TSPX_TE_FLCT = C_Nocontrol]<br/>                 (TCV_BcapMT2 := BcapX_MT(C_3100Hz,<br/>                 C_Unstructured, C_nirr_nomeaning,<br/>                 C_no_rate_adaption, C_I440_450,<br/>                 C_Asynchronous, TSPX_TE_stopbit,<br/>                 TSPX_TE_databit, ur, ir, TSPX_TE_parity,<br/>                 C_transparent, modemt, C_COPnoFLCT))<br/>                 [(TSPX_TE_FLCT &lt;&gt; C_Outband)<br/>                 AND(TSPX_TE_FLCT &lt;&gt; C_Inband)<br/>                 AND(TSPX_TE_FLCT &lt;&gt; C_Nocontrol)]</p>                  | <p>I</p> | <p>11.8.1.3.1<br/><br/>11.8.1.3.1<br/><br/>11.8.1.3.1</p> |
| <p>89<br/>90<br/>91<br/>92<br/>93<br/>94<br/>95</p>               | <p><b>local_BS61or81_A_NT(ur:B_4; modemt:B_5;<br/>                 cel:B_2)</b><br/>                 [TSPX_TE_FLCT = C_Outband]<br/>                 (TCV_BcapMT2 := Bcap_MT(C_3100Hz,<br/>                 C_SDUintegrity, C_nirr_nomeaning,<br/>                 C_no_rate_adaption, C_I440_450,<br/>                 C_Asynchronous, TSPX_TE_stopbit,<br/>                 TSPX_TE_databit, ur, C_ir_16kbs,<br/>                 TSPX_TE_parity, cel, modemt))<br/>                 [TSPX_TE_FLCT = C_Inband]<br/>                 (TCV_BcapMT2 := BcapX_MT(C_3100Hz,<br/>                 C_SDUintegrity, C_nirr_nomeaning,<br/>                 C_no_rate_adaption, C_I440_450,<br/>                 C_Asynchronous, TSPX_TE_stopbit,<br/>                 TSPX_TE_databit, ur, C_ir_16kbs,<br/>                 TSPX_TE_parity, cel, modemt, C_ISO6429))<br/>                 [TSPX_TE_FLCT = C_Nocontrol]<br/>                 (TCV_BcapMT2 := BcapX_MT(C_3100Hz,<br/>                 C_SDUintegrity, C_nirr_nomeaning,<br/>                 C_no_rate_adaption, C_I440_450,<br/>                 C_Asynchronous, TSPX_TE_stopbit,<br/>                 TSPX_TE_databit, ur, C_ir_16kbs,<br/>                 TSPX_TE_parity, cel, modemt, C_COPnoFLCT))<br/>                 [(TSPX_TE_FLCT &lt;&gt; C_Outband)<br/>                 AND(TSPX_TE_FLCT &lt;&gt; C_Inband)<br/>                 AND(TSPX_TE_FLCT &lt;&gt; C_Nocontrol)]</p> | <p>I</p> | <p>11.8.1.3.2<br/><br/>11.8.1.3.2<br/><br/>11.8.1.3.2</p> |
| <p>96</p>                                                         | <p><b>local_BS61or81_S_T(ir:B_2; ur: B_4;<br/>                 modemt:B_5)</b><br/>                 (TCV_BcapMT2 := Bcap_MT(C_3100Hz,</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          | <p>11.8.1.3.3</p>                                         |

|     |                                                                                                                                                                    |  |   |                 |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---|-----------------|
|     | C_Unstructured, C_nirr_nomeaning,<br>C_no_rate_adaption, C_l440_450, C_Synchronous,<br>C_stopbit_NA, C_databit_NA, ur, ir, C_parity_NA,<br>C_transparent, modemt)) |  |   |                 |
|     | <b>local_bcapa</b>                                                                                                                                                 |  |   |                 |
| 97  | [t_nt_ur1 OR (ce = C_nottransparent)]                                                                                                                              |  |   |                 |
| 98  | +local_bcap2A(a_ur1, C_nottransparent)                                                                                                                             |  |   |                 |
| 99  | (TCV_ce := C_nottransparent)                                                                                                                                       |  |   |                 |
| 100 | [NOT t_nt_ur1 AND (ce = C_transparent)]                                                                                                                            |  |   |                 |
| 101 | +local_bcap2A(a_ur1, C_transparent)                                                                                                                                |  |   |                 |
| 102 | (TCV_ce := C_transparent)                                                                                                                                          |  |   |                 |
|     | <b>local_IFsetup</b>                                                                                                                                               |  |   |                 |
| 103 | [TCV_supported]                                                                                                                                                    |  |   |                 |
| 104 | (TCV_Null :=<br>OO_IFsetup_BS61orBS81_MT(TCV_srv, TCV_ur,<br>TCV_sa))                                                                                              |  |   |                 |
| 105 | [NOT TCV_supported]                                                                                                                                                |  |   |                 |
| 106 | [TCV_SpecialCase]                                                                                                                                                  |  |   |                 |
| 107 | START T_dly(C_T_Wait)                                                                                                                                              |  |   |                 |
| 108 | ?TIMEOUT T_dly                                                                                                                                                     |  |   |                 |
| 109 | [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>               |       | GSM_L3_MS_v4180/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                                                                                                                                                          | CRef | V | Comments       |
| 1                           |       | +local_init                                                                                                                                                                    |      |   | Default values |
| 2                           |       | [TCV_Service = C_Telephony]                                                                                                                                                    |      |   |                |
| 3                           |       | (TCV_BcapMO1 :=<br>Bcap_Speech_MO(TCV_Rchr))                                                                                                                                   |      |   | TS11           |
| 4                           |       | +local_callcfm1                                                                                                                                                                |      |   |                |
| 5                           |       | [TCV_Service = C_AltSpchFax]                                                                                                                                                   |      |   |                |
| 6                           |       | [rate = C_Full]                                                                                                                                                                |      |   |                |
| 7                           |       | +local_TS61(C_AltSpchFax)                                                                                                                                                      |      |   | TS61           |
| 8                           |       | [rate <> C_Full]                                                                                                                                                               |      | I | IXIT error     |
| 9                           |       | [TCV_Service = C_AutoFax]                                                                                                                                                      |      |   |                |
| 10                          |       | [rate = C_Full]                                                                                                                                                                |      |   |                |
| 11                          |       | +local_TS62(C_AutoFax)                                                                                                                                                         |      |   | TS62           |
| 12                          |       | [rate <> C_Full]                                                                                                                                                               |      | I | IXIT error     |
| 13                          |       | [TCV_Service = C_Async300]                                                                                                                                                     |      |   |                |
| 14                          |       | +local_BS2x(C_Async300, C_300bs,<br>C_modemt_V21, TSPX_BS_21_ce)                                                                                                               |      |   | BS21           |
| 15                          |       | [TCV_Service = C_Async1200]                                                                                                                                                    |      |   |                |
| 16                          |       | +local_BS2x(C_Async1200, C_1200bs,<br>C_modemt_V22, TSPX_BS_22_ce)                                                                                                             |      |   | BS22           |
| 17                          |       | [TCV_Service = C_Async120075]                                                                                                                                                  |      |   |                |
| 18                          |       | +local_BS2x(C_Async120075, C_120075bs,<br>C_modemt_V23, TSPX_BS_23_ce)                                                                                                         |      |   | BS23           |
| 19                          |       | [TCV_Service = C_Async2400]                                                                                                                                                    |      |   |                |
| 20                          |       | +local_BS2x(C_Async2400, C_2400bs,<br>TCV_MODEM.V22bisOrV26ter,<br>TSPX_BS_24_ce)                                                                                              |      |   | BS24           |
| 21                          |       | [TCV_Service = C_Async4800]                                                                                                                                                    |      |   |                |
| 22                          |       | +local_BS2x(C_Async4800, C_4800bs,<br>C_modemt_V32, TSPX_BS_25_ce)                                                                                                             |      |   | BS25           |
| 23                          |       | [TCV_Service = C_Async9600]                                                                                                                                                    |      |   |                |
| 24                          |       | +local_BS2x(C_Async9600, C_9600bs,<br>C_modemt_V32, TSPX_BS_26_ce)                                                                                                             |      |   | BS26           |
| 25                          |       | [TCV_Service = C_Sync1200]                                                                                                                                                     |      |   |                |
| 26                          |       | +local_BS3x(C_Sync1200, TSPX_BS_31_sacp1,<br>C_1200bs, C_transparent, C_modemt_V22)                                                                                            |      |   | BS31           |
| 27                          |       | [TCV_Service = C_Sync2400]                                                                                                                                                     |      |   |                |
| 28                          |       | +local_BS3x(C_Sync2400, TSPX_BS_32_sacp1,<br>C_2400bs, TSPX_BS_32_X32_ce,<br>TCV_MODEM.V22bisOrV26ter)                                                                         |      |   | BS32           |
| 29                          |       | [TCV_Service = C_Sync4800]                                                                                                                                                     |      |   |                |
| 30                          |       | +local_BS3x(C_Sync4800, TSPX_BS_33_sacp1,<br>C_4800bs, TSPX_BS_33_X32_ce,<br>C_modemt_V32)                                                                                     |      |   | BS33           |
| 31                          |       | [TCV_Service = C_Sync9600]                                                                                                                                                     |      |   |                |
| 32                          |       | +local_BS3x(C_Sync9600, TSPX_BS_34_sacp1,<br>C_9600bs, TSPX_BS_34_X32_ce,<br>C_modemt_V32)                                                                                     |      |   | BS34           |
| 33                          |       | [TCV_Service = C_AltSpchData]                                                                                                                                                  |      |   |                |
| 34                          |       | +local_BS61or81(C_AltSpchData,<br>TSPX_BS_61_A, TSPX_BS_61_A_ur1,<br>TSPX_BS_61_A_ur1_ce, TSPX_BS_61_S,<br>TSPX_BS_61_S_ur1, C_RI_alternate)                                   |      |   | BS61           |
| 35                          |       | [TCV_Service = C_SpchData]                                                                                                                                                     |      |   |                |
| 36                          |       | +local_BS61or81(C_SpchData, TSPX_BS_81_A,<br>TSPX_BS_81_A_ur1, TSPX_BS_81_A_ur1_ce,<br>TSPX_BS_81_S, TSPX_BS_81_S_ur1,<br>C_RI_follow)                                         |      |   | BS81           |
| 37                          |       | [C_Yes]                                                                                                                                                                        |      | I | IXIT error     |
|                             |       | <b>local_init</b>                                                                                                                                                              |      |   |                |



|    |                                                                                                                                                                                                                                                                           |   |                                          |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------------|
| 38 | (TCV_Service := svc, TCV_Rchr := C_Rchr_Full,<br>TCV_MODEM := V22bisOrV26ter)                                                                                                                                                                                             |   |                                          |
| 39 | [TSPC_DualRate]                                                                                                                                                                                                                                                           |   |                                          |
| 40 | (TCV_Rchr := C_Rchr_DualForDualH)                                                                                                                                                                                                                                         |   |                                          |
| 41 | [NOT TSPC_DualRate]                                                                                                                                                                                                                                                       |   |                                          |
|    | <b>local_BS2x(svc:SERVICES; ur:B_4; modem:B_5;<br/>ce:B_2)</b>                                                                                                                                                                                                            |   |                                          |
| 42 | [(ce <> C_transparent) AND(ce <> C_nottransparent)]                                                                                                                                                                                                                       | I | IXIT value error                         |
| 43 | [C_Yes]                                                                                                                                                                                                                                                                   |   |                                          |
| 44 | +local_callCfm_BS2x(ce, ur, modem)                                                                                                                                                                                                                                        |   | generate call confirmed<br>msg           |
| 45 | (TCV_Null := OO_IFsetup_BS2xorBS3x_MO(svc,<br>C_3100Hz, C_I440_450, ce, TCV_ChRate))                                                                                                                                                                                      |   | ask test operator to<br>configure the MS |
|    | <b>local_callCfm_BS2x(ce1: B_2; ur1:B_4;<br/>modem1:B_5)</b>                                                                                                                                                                                                              |   |                                          |
| 46 | [ce1 = C_transparent]                                                                                                                                                                                                                                                     |   |                                          |
| 47 | [ur1 = C_9600bs]                                                                                                                                                                                                                                                          |   |                                          |
| 48 | (TCV_BcapMO1 := Bcap_MO(TCV_Rchr,<br>C_3100Hz, C_Unstructured, C_nirr_nomeaning,<br>C_no_rate_adaption, C_I440_450,<br>C_Asynchronous, C_stopbit_dontcare,<br>C_databit_dontcare, ur1, C_ir_16kbs,<br>C_parity_dontcare, C_transparent, modem1))                          |   | 11.8.2.1.1.1                             |
| 49 | +local_callcfm1                                                                                                                                                                                                                                                           |   |                                          |
| 50 | [ur1 <> C_9600bs]                                                                                                                                                                                                                                                         |   |                                          |
| 51 | (TCV_BcapMO1 := Bcap_MO(TCV_Rchr,<br>C_3100Hz, C_Unstructured, C_nirr_nomeaning,<br>C_no_rate_adaption, C_I440_450,<br>C_Asynchronous, C_stopbit_dontcare,<br>C_databit_dontcare, ur1, C_ir_8kbs,<br>C_parity_dontcare, C_transparent, modem1))                           |   | 11.8.2.1.1.1                             |
| 52 | +local_callcfm1                                                                                                                                                                                                                                                           |   |                                          |
| 53 | [ce1 = C_nottransparent]                                                                                                                                                                                                                                                  |   |                                          |
| 54 | (TCV_BcapMO1 := BcapX_MO(TCV_Rchr,<br>C_3100Hz, C_SDUintegrity, C_nirr_nomeaning,<br>C_no_rate_adaption, C_I440_450,<br>C_Asynchronous, C_stopbit_dontcare,<br>C_databit_dontcare, ur1, C_ir_16kbs,<br>C_parity_dontcare, C_nottransparent, modem1,<br>C_uil2p_dontcare)) |   | 11.8.2.1.1.2                             |
| 55 | +local_callcfm1                                                                                                                                                                                                                                                           |   |                                          |
|    | <b>local_BS3x(svc:SERVICES; saccp:B_3; ur:B_4;<br/>ce:B_2; modem:B_5)</b>                                                                                                                                                                                                 |   |                                          |
| 56 | [((ce <> C_transparent) AND(ce <> C_nottransparent))<br>OR((saccp <> C_I440_450) AND(saccp <> C_X32))]                                                                                                                                                                    | I | IXIT value error                         |
| 57 | [C_Yes]                                                                                                                                                                                                                                                                   |   |                                          |
| 58 | +local_callCfm_BS3x(ce, ur, saccp, modem)                                                                                                                                                                                                                                 |   | generate call confirmed<br>msg           |
| 59 | (TCV_Null := OO_IFsetup_BS2xorBS3x_MO(svc,<br>C_3100Hz, saccp, ce, TCV_ChRate))                                                                                                                                                                                           |   | ask operator to configure<br>the MS      |
|    | <b>local_callCfm_BS3x(ce1: B_2; ur1: B_4; saccp1:<br/>B_3; modem1 :B_5)</b>                                                                                                                                                                                               |   |                                          |
| 60 | [saccp1 = C_I440_450]                                                                                                                                                                                                                                                     |   |                                          |
| 61 | [ur1 = C_9600bs]                                                                                                                                                                                                                                                          |   |                                          |
| 62 | (TCV_BcapMO1 := Bcap_MO(TCV_Rchr,<br>C_3100Hz, C_Unstructured, C_nirr_nomeaning,<br>C_no_rate_adaption, C_I440_450,<br>C_Synchronous, C_stopbit_NA, C_databit_NA,<br>ur1, C_ir_16kbs, C_parity_NA, C_transparent,<br>modem1))                                             |   | 11.8.2.2.1.1                             |
| 63 | +local_callcfm1                                                                                                                                                                                                                                                           |   |                                          |
| 64 | [ur1 <> C_9600bs]                                                                                                                                                                                                                                                         |   |                                          |
| 65 | (TCV_BcapMO1 := Bcap_MO(TCV_Rchr,<br>C_3100Hz, C_Unstructured, C_nirr_nomeaning,<br>C_no_rate_adaption, C_I440_450,<br>C_Synchronous, C_stopbit_NA, C_databit_NA,<br>ur1, C_ir_8kbs, C_parity_NA, C_transparent,                                                          |   | 11.8.2.2.1.1                             |

|     |                                                                                                                                                                                                                         |              |                |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------|
| 66  | modem1))                                                                                                                                                                                                                |              |                |
| 67  | +local_callcfm1                                                                                                                                                                                                         |              |                |
| 68  | [sacp1 = C_X32]                                                                                                                                                                                                         |              |                |
| 69  | [ce1 = C_transparent]                                                                                                                                                                                                   |              |                |
| 70  | [ur1 = C_9600bs]                                                                                                                                                                                                        |              |                |
| 71  | (TCV_BcapMO1 := Bcap_MO(TCV_Rchr,<br>C_3100Hz, C_Unstructured, C_nirr_nomeaning,<br>C_no_rate_adaption, C_X32, C_Synchronous,<br>C_stopbit_NA, C_databit_NA, ur1, C_ir_16kbs,<br>C_parity_NA, C_transparent, modem1))   | 11.8.2.2.1.3 |                |
| 72  | +local_callcfm1                                                                                                                                                                                                         |              |                |
| 73  | [ur1 <> C_9600bs]                                                                                                                                                                                                       |              |                |
| 74  | (TCV_BcapMO1 := Bcap_MO(TCV_Rchr,<br>C_3100Hz, C_Unstructured, C_nirr_nomeaning,<br>C_no_rate_adaption, C_X32, C_Synchronous,<br>C_stopbit_NA, C_databit_NA, ur1, C_ir_8kbs,<br>C_parity_NA, C_transparent, modem1))    | 11.8.2.2.1.3 |                |
| 75  | +local_callcfm1                                                                                                                                                                                                         |              |                |
| 76  | [ce1 = C_nottransparent]                                                                                                                                                                                                |              |                |
| 77  | (TCV_BcapMO1 := BcapX_MO(TCV_Rchr,<br>C_3100Hz, C_SDUintegrity, C_nirr_nomeaning,<br>C_no_rate_adaption, C_X32, C_Synchronous,<br>C_stopbit_NA, C_databit_NA, ur1, C_ir_16kbs,<br>C_parity_NA, ce1, modem1, C_X25_flt)) | 11.8.2.2.1.4 |                |
| 78  | +local_callcfm1                                                                                                                                                                                                         |              |                |
| 79  | <b>local_BS61or81(svc1:SERVICES;<br/>async1:BOOLEAN; ur_a1:B_4; ce_a1:B_2;<br/>sync1:BOOLEAN; ur_s1:B_4; ri3: RPI)</b>                                                                                                  |              |                |
| 80  | [(ce_a1 <> C_transparent) AND(ce_a1 <><br>C_nottransparent) AND async1]                                                                                                                                                 | I            | IXIT error     |
| 81  | [(ur_a1 <> C_300bs) AND(ur_a1 <> C_1200bs)<br>AND(ur_a1 <> C_2400bs) AND(ur_a1 <> C_4800bs)<br>AND(ur_a1 <> C_9600bs) AND(ur_a1 <><br>C_120075bs) AND async1]                                                           | I            | IXIT error     |
| 82  | [(ur_s1 <> C_1200bs) AND(ur_s1 <> C_2400bs)<br>AND(ur_s1 <> C_4800bs) AND(ur_s1 <> C_9600bs)<br>AND sync1]                                                                                                              | I            | IXIT error     |
| 83  | [C_Yes]                                                                                                                                                                                                                 |              | IXIT values OK |
| 84  | +local_callCfm_BS61or81(svc1, async1, ur_a1,<br>ce_a1, sync1, ur_s1, ri3)                                                                                                                                               |              |                |
| 85  | (TCV_Null := OO_IFsetup_BS61orBS81_MO(svc,<br>TCV_ur, TCV_sa, TCV_ce, TCV_ChRate))                                                                                                                                      |              |                |
| 86  | <b>local_callCfm_BS61or81(svc:SERVICES;<br/>async:BOOLEAN; ur_a:B_4; ce_a:B_2;<br/>sync:BOOLEAN; ur_s:B_4; ri:RPI)</b>                                                                                                  |              |                |
| 87  | [async]                                                                                                                                                                                                                 |              |                |
| 88  | [ce_a = C_transparent]                                                                                                                                                                                                  |              |                |
| 89  | (TCV_ur := ur_a, TCV_sa := C_Asynchronous,<br>TCV_ce := C_transparent)                                                                                                                                                  |              |                |
| 90  | [ur_a = C_300bs]                                                                                                                                                                                                        |              |                |
| 91  | +local_Bs61or81_async_T(C_300bs,<br>C_modemt_V21, ri)                                                                                                                                                                   |              |                |
| 92  | [ur_a = C_1200bs]                                                                                                                                                                                                       |              |                |
| 93  | +local_Bs61or81_async_T(C_1200bs,<br>C_modemt_V22, ri)                                                                                                                                                                  |              |                |
| 94  | [ur_a = C_120075bs]                                                                                                                                                                                                     |              |                |
| 95  | +local_Bs61or81_async_T(C_120075bs,<br>C_modemt_V23, ri)                                                                                                                                                                |              |                |
| 96  | [ur_a = C_2400bs]                                                                                                                                                                                                       |              |                |
| 97  | +local_Bs61or81_async_T(C_2400bs,<br>TCV_MODEM.V22bisOrV26ter, ri)                                                                                                                                                      |              |                |
| 98  | [ur_a = C_4800bs]                                                                                                                                                                                                       |              |                |
| 99  | +local_Bs61or81_async_T(C_4800bs,<br>C_modemt_V32, ri)                                                                                                                                                                  |              |                |
| 100 | [ur_a = C_9600bs]                                                                                                                                                                                                       |              |                |
| 101 | +local_Bs61or81_async_T(C_9600bs,<br>C_modemt_V32, ri)                                                                                                                                                                  |              |                |
| 102 | [ce_a = C_nottransparent]                                                                                                                                                                                               |              |                |

|     |                                                                                                                                                                                                                                                                             |            |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 100 | (TCV_ur := ur_a, TCV_sa := C_Asynchronous,<br>TCV_ce := C_nottransparent)                                                                                                                                                                                                   |            |
| 101 | [ur_a = C_300bs]                                                                                                                                                                                                                                                            |            |
| 102 | +local_Bs61or81_async_NT(C_300bs,<br>C_modemt_V21, ri)                                                                                                                                                                                                                      |            |
| 103 | [ur_a = C_1200bs]                                                                                                                                                                                                                                                           |            |
| 104 | +local_Bs61or81_async_NT(C_1200bs,<br>C_modemt_V22, ri)                                                                                                                                                                                                                     |            |
| 105 | [ur_a = C_120075bs]                                                                                                                                                                                                                                                         |            |
| 106 | +local_Bs61or81_async_NT(C_120075bs,<br>C_modemt_V23, ri)                                                                                                                                                                                                                   |            |
| 107 | [ur_a = C_2400bs]                                                                                                                                                                                                                                                           |            |
| 108 | +local_Bs61or81_async_NT(C_2400bs,<br>TCV_MODEM.V22bisOrV26ter, ri)                                                                                                                                                                                                         |            |
| 109 | [ur_a = C_4800bs]                                                                                                                                                                                                                                                           |            |
| 110 | +local_Bs61or81_async_NT(C_1200bs,<br>C_modemt_V32, ri)                                                                                                                                                                                                                     |            |
| 111 | [ur_a = C_9600bs]                                                                                                                                                                                                                                                           |            |
| 112 | +local_Bs61or81_async_NT(C_1200bs,<br>C_modemt_V32, ri)                                                                                                                                                                                                                     |            |
| 113 | [sync]                                                                                                                                                                                                                                                                      |            |
| 114 | (TCV_ur := ur_s, TCV_sa := C_Synchronous,<br>TCV_ce := C_transparent)                                                                                                                                                                                                       |            |
| 115 | [ur_s = C_1200bs]                                                                                                                                                                                                                                                           |            |
| 116 | +local_Bs61or81_sync_T(C_1200bs,<br>C_modemt_V22, ri)                                                                                                                                                                                                                       |            |
| 117 | [ur_s = C_2400bs]                                                                                                                                                                                                                                                           |            |
| 118 | +local_Bs61or81_sync_T(C_2400bs,<br>TCV_MODEM.V22bisOrV26ter, ri)                                                                                                                                                                                                           |            |
| 119 | [ur_s = C_4800bs]                                                                                                                                                                                                                                                           |            |
| 120 | +local_Bs61or81_sync_T(C_4800bs,<br>C_modemt_V32, ri)                                                                                                                                                                                                                       |            |
| 121 | [ur_s = C_9600bs]                                                                                                                                                                                                                                                           |            |
| 122 | +local_Bs61or81_sync_T(C_9600bs,<br>C_modemt_V32, ri)                                                                                                                                                                                                                       |            |
|     | <b>local_Bs61or81_async_T(usrrt:B_4;<br/>modemtp:B_5; rpi:RPI)</b>                                                                                                                                                                                                          |            |
| 123 | [usrrt <> C_9600bs]                                                                                                                                                                                                                                                         |            |
| 124 | (TCV_BcapMO1 := Bcap_MO(TCV_Rchr,<br>C_3100Hz, C_Unstructured, C_nirr_nomeaning,<br>C_no_rate_adaption, C_I440_450,<br>C_Asynchronous, C_stopbit_dontcare,<br>C_databit_dontcare, usrrt, C_ir_8kbs,<br>C_parity_dontcare, C_transparent, modemtp))                          | 11.8.2.5.1 |
| 125 | +local_callcfm2(rpi)                                                                                                                                                                                                                                                        |            |
| 126 | [usrrt = C_9600bs]                                                                                                                                                                                                                                                          |            |
| 127 | (TCV_BcapMO1 := Bcap_MO(TCV_Rchr,<br>C_3100Hz, C_Unstructured, C_nirr_nomeaning,<br>C_no_rate_adaption, C_I440_450,<br>C_Asynchronous, C_stopbit_dontcare,<br>C_databit_dontcare, usrrt, C_ir_16kbs,<br>C_parity_dontcare, C_transparent, modemtp))                         | 11.8.2.5.1 |
| 128 | +local_callcfm2(rpi)                                                                                                                                                                                                                                                        |            |
|     | <b>local_Bs61or81_async_NT(usrrt1:B_4;<br/>modemtp2:B_5; rpi:RPI)</b>                                                                                                                                                                                                       |            |
| 129 | (TCV_BcapMO1 := BcapX_MO(TCV_Rchr,<br>C_3100Hz, C_SDUintegrity, C_nirr_nomeaning,<br>C_no_rate_adaption, C_I440_450, C_Asynchronous,<br>C_stopbit_dontcare, C_databit_dontcare, usrrt1,<br>C_ir_16kbs, C_parity_dontcare, C_nottransparent,<br>modemtp2, C_uil2p_dontcare)) | 11.8.2.5.2 |
| 130 | +local_callcfm2(rpi)                                                                                                                                                                                                                                                        |            |
|     | <b>local_Bs61or81_sync_T(usrrt2:B_4; modemtp2:<br/>B_5; rpi2:RPI)</b>                                                                                                                                                                                                       |            |
| 131 | [usrrt2 <> C_9600bs]                                                                                                                                                                                                                                                        |            |
| 132 | (TCV_BcapMO1 := Bcap_MO(TCV_Rchr,<br>C_3100Hz, C_Unstructured, C_nirr_nomeaning,                                                                                                                                                                                            | 11.8.2.5.3 |

|     |                                                                                                                                                                                                                                                             |   |                      |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------------------|
| 133 | C_no_rate_adaption, C_I440_450,<br>C_Synchronous, C_stopbit_NA, C_databit_NA,<br>usrst2, C_ir_8kbs, C_parity_NA, C_transparent,<br>modemtp2))<br>+local_callcfm2(rpi2)                                                                                      |   |                      |
| 134 | [usrst2 = C_9600bs]                                                                                                                                                                                                                                         |   |                      |
| 135 | (TCV_BcapMO1 := Bcap_MO(TCV_Rchr,<br>C_3100Hz, C_Unstructured, C_nirr_nomeaning,<br>C_no_rate_adaption, C_I440_450,<br>C_Synchronous, C_stopbit_NA, C_databit_NA,<br>usrst2, C_ir_16kbs, C_parity_NA, C_transparent,<br>modemtp2))<br>+local_callcfm2(rpi2) |   | 11.8.2.5.3           |
| 136 |                                                                                                                                                                                                                                                             |   |                      |
|     | <b>local_TS61(svc:SERVICES)</b>                                                                                                                                                                                                                             |   |                      |
| 137 | (TCV_ur := TSPX_TS_61_ur1, TCV_ce :=<br>TSPX_TS_61_ce)                                                                                                                                                                                                      |   |                      |
| 138 | [(TCV_ur <> C_4800bs) AND(TCV_ur <><br>C_2400bs) AND(TCV_ur <> C_9600bs)]                                                                                                                                                                                   | I | IXIT parameter error |
| 139 | [(TCV_ce <> C_transparent) AND(TCV_ce <><br>C_notransparent)]                                                                                                                                                                                               | I | IXIT parameter error |
| 140 | [C_Yes]                                                                                                                                                                                                                                                     |   |                      |
| 141 | +local_Bcap_TS6x                                                                                                                                                                                                                                            |   |                      |
| 142 | +local_callcfm2(C_RI_alternate)                                                                                                                                                                                                                             |   |                      |
| 143 | (TCV_Null := OO_IFsetup_TS6x_MO(svc,<br>TCV_ur, TCV_ce, TCV_ChRate))                                                                                                                                                                                        |   |                      |
|     | <b>local_TS62(svc:SERVICES)</b>                                                                                                                                                                                                                             |   |                      |
| 144 | (TCV_ur := TSPX_TS_62_ur1, TCV_ce :=<br>TSPX_TS_62_ce)                                                                                                                                                                                                      |   |                      |
| 145 | [(TCV_ur <> C_4800bs) AND(TCV_ur <><br>C_2400bs) AND(TCV_ur <> C_9600bs)]                                                                                                                                                                                   | I | IXIT parameter error |
| 146 | [(TCV_ce <> C_transparent) AND(TCV_ce <><br>C_notransparent)]                                                                                                                                                                                               | I | IXIT parameter error |
| 147 | [C_Yes]                                                                                                                                                                                                                                                     |   |                      |
| 148 | +local_Bcap_TS6x                                                                                                                                                                                                                                            |   |                      |
| 149 | +local_callcfm1                                                                                                                                                                                                                                             |   |                      |
| 150 | (TCV_Null := OO_IFsetup_TS6x_MO(svc,<br>TCV_ur, TCV_ce, TCV_ChRate))                                                                                                                                                                                        |   |                      |
|     | <b>local_Bcap_TS6x</b>                                                                                                                                                                                                                                      |   |                      |
| 151 | [TCV_ce = C_transparent]                                                                                                                                                                                                                                    |   |                      |
| 152 | [TCV_ur = C_9600bs]                                                                                                                                                                                                                                         |   |                      |
| 153 | (TCV_BcapMO1 := Bcap_MO(TCV_Rchr,<br>C_FAX3, C_Unstructured, C_nirr_nomeaning,<br>C_no_rate_adaption, C_sacp_NA,<br>C_Synchronous, C_stopbit_NA, C_databit_NA,<br>TCV_ur, C_ir_16kbs, C_parity_NA,<br>C_transparent, C_modemt_none))                        |   | 11.8.2.7.1           |
| 154 | [(TCV_ur = C_4800bs) OR (TCV_ur = C_2400bs)]                                                                                                                                                                                                                |   |                      |
| 155 | (TCV_BcapMO1 := Bcap_MO(TCV_Rchr,<br>C_FAX3, C_Unstructured, C_nirr_nomeaning,<br>C_no_rate_adaption, C_sacp_NA,<br>C_Synchronous, C_stopbit_NA, C_databit_NA,<br>TCV_ur, C_ir_8kbs, C_parity_NA, C_transparent,<br>C_modemt_none))                         |   | 11.8.2.7.1           |
| 156 | [TCV_ce = C_notransparent]                                                                                                                                                                                                                                  |   |                      |
| 157 | (TCV_BcapMO1 := BcapX_MO(TCV_Rchr,<br>C_FAX3, C_SDUintegrity, C_nirr_nomeaning,<br>C_no_rate_adaption, C_sacp_NA,<br>C_Synchronous, C_stopbit_NA, C_databit_NA,<br>TCV_ur, C_ir_16kbs, C_parity_NA,<br>C_notransparent, C_modemt_none, C_X25_flct))         |   | 11.8.2.7.2           |
|     | <b>local_callcfm1</b>                                                                                                                                                                                                                                       |   |                      |
| 158 | (TCV_CallCfm := CallConfirm_04(TI_01,<br>TCV_BcapMO1))                                                                                                                                                                                                      |   |                      |
|     | <b>local_callcfm2(rpi:RPI)</b>                                                                                                                                                                                                                              |   |                      |
| 159 | (TCV_CallCfm := CallConfirm_05(TI_01, rpi,                                                                                                                                                                                                                  |   |                      |

|                                                                                                  |                                       |  |  |
|--------------------------------------------------------------------------------------------------|---------------------------------------|--|--|
|                                                                                                  | Bcap_Speech_MO(TCV_Rchr, TCV_BcapMO1) |  |  |
| <b>Detailed Comments:</b> The implementation of this test step is based on the SMG 7 Tdoc 266/96 |                                       |  |  |

| <b>Test Step Dynamic Behaviour</b> |       |                                                                                                                                                                                                                                                                                   |      |   |                |
|------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------------|
| <b>Test Step Name:</b>             |       | Chmod(rate:RATE; ce:B_2; ur:B_4; svc:SERVICES)                                                                                                                                                                                                                                    |      |   |                |
| <b>Group:</b>                      |       | GSM_L3_MS_v4180/Preambles/                                                                                                                                                                                                                                                        |      |   |                |
| <b>Objective:</b>                  |       | To assign correct values to the test case variables TCV_ChMod and TCV_ChModb.                                                                                                                                                                                                     |      |   |                |
| <b>Default:</b>                    |       | OtherEvents                                                                                                                                                                                                                                                                       |      |   |                |
| <b>Comments:</b>                   |       | 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                                                                                                                                                                                                                                                             | CRef | V | Comments       |
| 1                                  |       | +local_tree                                                                                                                                                                                                                                                                       |      |   |                |
| 2                                  |       | [(svc = C_AltSpchData) OR (svc = C_SpchData)<br>OR (svc = C_AltSpchFax)]                                                                                                                                                                                                          |      |   | dual mode call |
| 3                                  |       | (TCV_ChMod.mode := C_ChMod_r)                                                                                                                                                                                                                                                     |      |   |                |
| 4                                  |       | [(svc <> C_AltSpchData) AND (svc <> C_SpchData)<br>AND (svc <> C_AltSpchFax)]                                                                                                                                                                                                     |      |   |                |
|                                    |       | <b>local_tree</b>                                                                                                                                                                                                                                                                 |      |   |                |
| 5                                  |       | [(ce = C_nottransparent) OR (ce = C_BothNT)] AND<br>(rate = C_Full)]                                                                                                                                                                                                              |      |   |                |
| 6                                  |       | (TCV_ChMod.mode := C_ChMod_12k,<br>TCV_ChModb.mode := C_ChMod_12k)                                                                                                                                                                                                                |      |   |                |
| 7                                  |       | [(ce = C_nottransparent) OR (ce = C_BothNT)] AND<br>(rate = C_Half)]                                                                                                                                                                                                              |      |   |                |
| 8                                  |       | [ur <> C_9600bs]                                                                                                                                                                                                                                                                  |      |   |                |
| 9                                  |       | (TCV_ChMod.mode := C_ChMod_6k,<br>TCV_ChModb.mode := C_ChMod_6k)                                                                                                                                                                                                                  |      |   |                |
| 10                                 |       | [ur = C_9600bs]                                                                                                                                                                                                                                                                   |      | I | not applicable |
| 11                                 |       | [(ce = C_transparent) OR (ce = C_BothT)]                                                                                                                                                                                                                                          |      |   |                |
| 12                                 |       | [(ur = C_9600bs) AND (rate = C_Full)]                                                                                                                                                                                                                                             |      |   |                |
| 13                                 |       | (TCV_ChMod.mode := C_ChMod_12k,<br>TCV_ChModb.mode := C_ChMod_12k)                                                                                                                                                                                                                |      |   |                |
| 14                                 |       | [ur = C_4800bs]                                                                                                                                                                                                                                                                   |      |   |                |
| 15                                 |       | (TCV_ChMod.mode := C_ChMod_6k,<br>TCV_ChModb.mode := C_ChMod_6k)                                                                                                                                                                                                                  |      |   |                |
| 16                                 |       | [(ur <> C_4800bs) AND (ur <> C_9600bs)]                                                                                                                                                                                                                                           |      |   |                |
| 17                                 |       | (TCV_ChMod.mode := C_ChMod_3k,<br>TCV_ChModb.mode := C_ChMod_3k)                                                                                                                                                                                                                  |      |   |                |
| 18                                 |       | [(ur = C_9600bs) AND (rate = C_Half)]                                                                                                                                                                                                                                             |      | I | not applicable |
| <b>Detailed Comments:</b>          |       |                                                                                                                                                                                                                                                                                   |      |   |                |

| Test Step Dynamic Behaviour |       |                                                                                     |                                                                                                                                     |   |                         |
|-----------------------------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------|
| <b>Test Step Name:</b>      |       | Est_MO_Call(ta:TA; rate:IA5String)                                                  |                                                                                                                                     |   |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Preambles/                                                          |                                                                                                                                     |   |                         |
| <b>Objective:</b>           |       | To establish a mobile station originating call using standard procedure.            |                                                                                                                                     |   |                         |
| <b>Default:</b>             |       | OtherEvents                                                                         |                                                                                                                                     |   |                         |
| Nr                          | Label | Behaviour Description                                                               | CRef                                                                                                                                | V | Comments                |
| 1                           |       | +InitCall(TCV_Service)                                                              |                                                                                                                                     |   |                         |
| 2                           |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)    | ChReq(ChRequest_1<br>5)                                                                                                             |   |                         |
| 3                           |       | ACTIVATE(OtherEvents_02)                                                            |                                                                                                                                     |   | To match ChReq retrans. |
| 4                           |       | L!DL_UdatRqImmss                                                                    | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>ta)) |   |                         |
| 5                           |       | L?DL_EstInCmsRq                                                                     | CMSerReq(CMServic<br>eReq_01)                                                                                                       |   |                         |
| 6                           |       | ACTIVATE(OtherEvents)                                                               |                                                                                                                                     |   | Restore Normal default  |
| 7                           |       | +Authentication(TCV_ch, TCV_cks, n,<br>TSPX_RANDDef)                                |                                                                                                                                     |   |                         |
| 8                           |       | +Cipherring_on(TCV_ch)                                                              |                                                                                                                                     |   |                         |
| 9                           |       | +RcvSetupOrEsetup(TCV_Setup_mo,<br>TCV_Esetup, TCV_Ecall)                           |                                                                                                                                     |   |                         |
| 10                          |       | L!DL_DatRqCallProc                                                                  | CallProc(TCV_ch,<br>TCV_CallProc)                                                                                                   |   |                         |
| 11                          |       | L!DL_DatRqAlert                                                                     | AlertSnd(TCV_ch,<br>Alerting_01(TCV_TI))                                                                                            |   |                         |
| 12                          |       | +AssCmdGen(TCV_cellid, rate,<br>TSPX_TmSlitDef,<br>TSPX_TscDef,<br>TSPX_TCHHSubDef) |                                                                                                                                     |   |                         |
| 13                          |       | +AssCh_complete(TCV_ch,<br>TCV_chTch, TCV_AssCmd)                                   |                                                                                                                                     |   |                         |
| 14                          |       | L!DL_DatRqConn                                                                      | ConnSnd(TCV_chTch<br>,<br>Connect_02(TCV_TI))                                                                                       |   |                         |
| 15                          |       | L?DL_DatInConnAck                                                                   | ConnAckRcv(Connect<br>Ack_02(TCV_TIO))                                                                                              |   |                         |
| <b>Detailed Comments:</b>   |       |                                                                                     |                                                                                                                                     |   |                         |

| 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>                                  |       | GSM_L3_MS_v4180/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                                                                                                       | CRef                                                                                                                    | V | Comments                |
| 1                                              |       | (TCV_cellid:=C_CellA, TCV_Null := OM_NotAckSetup(TCV_ch))                                                                   |                                                                                                                         |   |                         |
| 2                                              |       | +InitCall(TCV_Service)                                                                                                      |                                                                                                                         |   |                         |
| 3                                              |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.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                                              |       | +Cipherring_on(TCV_ch)                                                                                                      |                                                                                                                         |   |                         |
| 9                                              |       | L?DL_DatInSetup (TCV_Mt := DL_DatInSetup.msg.mt)                                                                            | SetupRcv(SetupInd_01)                                                                                                   |   |                         |
| <b>localtree_ia(par_chn: OCTETSTRING)</b>      |       |                                                                                                                             |                                                                                                                         |   |                         |
| 10                                             |       | [par_chn = C_CHTCHF_NonFH]                                                                                                  |                                                                                                                         |   |                         |
| 11                                             |       | (TCV_Tchtype := '00001'B)                                                                                                   |                                                                                                                         |   |                         |
| 12                                             |       | +ltree_immass_nfh(TCV_tch_arfcn, tsc1)                                                                                      |                                                                                                                         |   |                         |
| 13                                             |       | [par_chn = C_CHSDCCH4_NonFH]                                                                                                |                                                                                                                         |   |                         |
| 14                                             |       | (TCV_Tchtype := INT_TO_BIT((4 + BIT_TO_INT(TSPX_SDCCH4SubDef)), 5))                                                         |                                                                                                                         |   |                         |
| 15                                             |       | +ltree_immass_nfh(TCV_chdescr_arfcn, tsc1)                                                                                  |                                                                                                                         |   |                         |
| 16                                             |       | [par_chn = C_CHSDCCH8_NonFH]                                                                                                |                                                                                                                         |   |                         |
| 17                                             |       | (TCV_Tchtype := INT_TO_BIT((8 + BIT_TO_INT(TSPX_SDCCH8SubDef)), 5))                                                         |                                                                                                                         |   |                         |
| 18                                             |       | +ltree_immass_nfh(TCV_tch_arfcn, tsc1)                                                                                      |                                                                                                                         |   |                         |
| 19                                             |       | [par_chn = C_CHTCHF_FH]                                                                                                     |                                                                                                                         |   |                         |
| 20                                             |       | (TCV_Tchtype := '00001'B)                                                                                                   |                                                                                                                         |   |                         |
| 21                                             |       | +ltree_immass_fh(nfrqg, nfrqd)                                                                                              |                                                                                                                         |   |                         |
| 22                                             |       | [par_chn = C_CHTCHH_FH]                                                                                                     |                                                                                                                         |   |                         |
| 23                                             |       | (TCV_Tchtype := INT_TO_BIT((2 + BIT_TO_INT(TSPX_TCHHSubDef)), 5))                                                           |                                                                                                                         |   |                         |
| 24                                             |       | +ltree_immass_fh(nfrqg, nfrqd)                                                                                              |                                                                                                                         |   |                         |
| 25                                             |       | [par_chn = C_CHSDCCH8_FH]                                                                                                   |                                                                                                                         |   |                         |
| 26                                             |       | (TCV_Tchtype := INT_TO_BIT((8 + BIT_TO_INT(TSPX_SDCCH8SubDef)), 5))                                                         |                                                                                                                         |   |                         |
| 27                                             |       | +ltree_immass_fh(nfrqg, nfrqd)                                                                                              |                                                                                                                         |   |                         |
| <b>ltree_immass_fh(frqnog, frqnod:INTEGER)</b> |       |                                                                                                                             |                                                                                                                         |   |                         |
| 28                                             |       | [TSPC_PGSM]                                                                                                                 |                                                                                                                         |   |                         |
| 29                                             |       | (TCV_maio := INT_TO_BIT((TSPX_MAIO MOD frqnog), 6))                                                                         |                                                                                                                         |   | 1.                      |
| 30                                             |       | LIDL_UdatRqImm                                                                                                              | 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)) |   |                         |
| 31                                             |       | [TSPC_DCS]                                                                                                                  |                                                                                                                         |   |                         |
| 32                                             |       | (TCV_maio := INT_TO_BIT((TSPX_MAIO MOD frqnod), 6))                                                                         |                                                                                                                         |   | 1.                      |
| 33                                             |       | LIDL_UdatRqImm                                                                                                              | ImmAss(TCV_agch, ImmAsgn_221(TCV_Rr, TCV_Fn, TCV_ia_ts, tsc1, TCV_Tchtype, TCV_maio, INT_TO_BIT(TSPX_H                  |   |                         |

|                           |                                                                      |                                                                                                                                                                          |  |
|---------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 34                        | <b>ltree_immass_nfh(arfcn:INTEGER; tsc:B_3)</b><br>LIDL_UdatRqlmmiss | SN, 6), ta, mad))<br><br>ImmAss(TCV_agch,<br>ImmAsgn_nfh(TCV_R<br>r, TCV_Fn,<br>TCV_Tchtype,<br>TCV_ia_ts, tsc, ta,<br>arfcn,<br>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

| <b>Test Step Name:</b>    |       | Est_MT_Call_FH( ta:TA; rate:IA5String; maio:MAIO)                                                                                                                                                                                        |                                                        |   |           |
|---------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|---|-----------|
| <b>Group:</b>             |       | GSM_L3_MS_v4180/Preambles/                                                                                                                                                                                                               |                                                        |   |           |
| <b>Objective:</b>         |       | To establish a mobile station terminating call with hopping channel (speech or data call).                                                                                                                                               |                                                        |   |           |
| <b>Default:</b>           |       | OtherEvents                                                                                                                                                                                                                              |                                                        |   |           |
| <b>Comments:</b>          |       | used var's:<br>TCV_cellid, TCV_ch                                                                                                                                                                                                        |                                                        |   |           |
| Nr                        | Label | Behaviour Description                                                                                                                                                                                                                    | CRef                                                   | V | Comments  |
| 1                         |       | +RRmtcallprepare(ta)                                                                                                                                                                                                                     |                                                        |   |           |
| 2                         |       | +CC_Est_MT_Call                                                                                                                                                                                                                          |                                                        |   |           |
| 3                         |       | +localtree                                                                                                                                                                                                                               |                                                        |   |           |
| 4                         |       | +AssCh_complete(TCV_ch, TCV_chTch,<br>TCV_AssCmd)                                                                                                                                                                                        |                                                        |   |           |
| 5                         |       | LIDL_DatRqConnAck                                                                                                                                                                                                                        | ConnAckSnd(TCV_ch<br>Tch,<br>ConnectAck_01(TI_0<br>2)) |   |           |
| 6                         |       | <b>localtree</b><br>[rate = C_Full]                                                                                                                                                                                                      |                                                        |   | Full rate |
| 7                         |       | [TCV_cellid = C_CellA]                                                                                                                                                                                                                   |                                                        |   |           |
| 8                         |       | +AssCmdGen_fh( C_Full, TCV_asscmd_ts,<br>TSPX_TscDef, TSPX_TCHHSubDef, 9, 15, maio,<br>INT_TO_BIT(TSPX_HSN, 6), Frql_20_A,<br>Frql_20_Ad, CellChDes_omit, CellChDes_omit,<br>ChMod_omit, MobilAlc_omit, MobilAlc_omit,<br>CphMod_omit)   |                                                        |   |           |
| 9                         |       | [TCV_cellid = C_CellB]                                                                                                                                                                                                                   |                                                        |   |           |
| 10                        |       | +AssCmdGen_fh( C_Full, TCV_asscmd_ts,<br>TSPX_TscDef, TSPX_TCHHSubDef, 9, 15, maio,<br>INT_TO_BIT(TSPX_HSN, 6), Frql_20_B1,<br>Frql_20_B8d, CellChDes_omit, CellChDes_omit,<br>ChMod_omit, MobilAlc_omit, MobilAlc_omit,<br>CphMod_omit) |                                                        |   |           |
| 11                        |       | [rate = C_Half]                                                                                                                                                                                                                          |                                                        |   | Half rate |
| 12                        |       | [TCV_cellid = C_CellA]                                                                                                                                                                                                                   |                                                        |   |           |
| 13                        |       | +AssCmdGen_fh( C_Half, TCV_asscmd_ts,<br>TSPX_TscDef, TSPX_TCHHSubDef, 9, 15, maio,<br>INT_TO_BIT(TSPX_HSN, 6), Frql_20_A0,<br>Frql_20_A0d, CellChDes_omit, CellChDes_omit,<br>ChMod_omit, MobilAlc_omit, MobilAlc_omit,<br>CphMod_omit) |                                                        |   |           |
| 14                        |       | [TCV_cellid = C_CellB]                                                                                                                                                                                                                   |                                                        |   |           |
| 15                        |       | +AssCmdGen_fh( C_Half, TCV_asscmd_ts,<br>TSPX_TscDef, TSPX_TCHHSubDef, 9, 15, maio,<br>INT_TO_BIT(TSPX_HSN, 6), Frql_20_B3,<br>Frql_20_B3d, CellChDes_omit, CellChDes_omit,<br>ChMod_omit, MobilAlc_omit, MobilAlc_omit,<br>CphMod_omit) |                                                        |   |           |
| <b>Detailed Comments:</b> |       |                                                                                                                                                                                                                                          |                                                        |   |           |



| Test Step Dynamic Behaviour |       |                                                                                                |      |   |          |
|-----------------------------|-------|------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | Est_MT_CallNonFH(ta:TA; rate:IA5String)                                                        |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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:<br>TCV_cellid, TCV_chdescr_arfcn, TCV_Bcap1, TCV_chTch, TCV_asscmd_ts              |      |   |          |
| Nr                          | Label | Behaviour Description                                                                          | CRef | V | Comments |
| 1                           |       | +RRmtcallprepare(ta)                                                                           |      |   |          |
| 2                           |       | +CC_EstMsTermCall(rate)                                                                        |      |   |          |
| <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; cchdgs, cchddcs:CCHD; crh, mtmcgsm, mtmcdcs:INTEGER; bcchflgsm, bcflaltgsm, bcchfldcs, bcflaltdcs:NCD; Re:B_1; bcc:BCC; ncc:NCC; StartType:INTEGER; subch:B_2; cksn, rand:BITSTRING; arfcngsm, arfcndcs:INTEGER; imsi:HEXSTRING; sysinfonb:INTEGER; nccp:NCCP) |                                                                                          |   |                           |
| Group:                      |       | GSM_L3_MS_v4180/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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                          |   |                           |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CRef                                                                                     | V | 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, imsi)                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                          |   |                           |
| 4                           |       | +ltree_chconf(C_cch_1Comb)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                          |   | Config LT                 |
| 5                           |       | +localtree1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                          |   |                           |
|                             |       | <b>localtree1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                          |   |                           |
| 6                           |       | +ltree_sysinfo(1, C_cch_1Comb)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                          |   | ATT= '1'B                 |
| 7                           |       | +MM_PwrOrSimOn(C_SIMneedRmv)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                          |   |                           |
| 8                           |       | +localtree_Lup_Auth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                          |   |                           |
|                             |       | <b>localtree_Lup_Auth</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                          |   |                           |
| 9                           |       | START T_dly(C_T_Wait1stChReq)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                          |   |                           |
| 10                          |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq, msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)<br>CANCEL T_dly                                                                                                                                                                                                                                                                                                                                                                                                                        | ChReq(ChRequest_02)                                                                      |   | Any channel request PDU   |
| 11                          |       | ACTIVATE(OtherEvents_02)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                          |   | To match ChReq retrans.   |
| 12                          |       | L!DL_UdatRqImm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, subch, slot, tsc, TCV_chdescr_arfcn, ta)) |   |                           |
| 13                          |       | L?DL_EstInLupRq                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | LocUp(TCV_ch, LocUpdtReq_01(C_norm_period_attach))                                       |   | Any location update type  |
| 14                          |       | ACTIVATE(OtherEvents)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                          |   | Restore Normal default    |
| 15                          |       | [StartType = C_Start_Rej]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                          |   |                           |
| 16                          |       | L!DL_DatRqLupRej                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | LocRej(TCV_ch, LocUpdtRej_01(C_rc_LAnotallowed))                                         |   | Delete LAI, tmsi, cksn    |
| 17                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                          |   | Release Ch                |
| 18                          |       | +MM_PwrOrSimOff(C_SIMneedRmv)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                          |   |                           |
| 19                          |       | +localtree2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                          |   |                           |
| 20                          |       | [StartType = C_Start_Imsi]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                          |   |                           |
| 21                          |       | +Authentication(TCV_ch, cksn, rand)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                          |   |                           |
| 22                          |       | L!DL_DatRqLupAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | LocAcp(TCV_ch, LocUpdtAcp_01(Milmsi_01iei, mcc, mnc, TCV_lac))                           |   | Location Accept with IMSI |
| 23                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                          |   | Release Ch                |
| 24                          |       | +localtree2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                          |   |                           |
| 25                          |       | [(StartType = C_Start_Tmsi) OR (StartType = C_Start_TmsiOff)]                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                          |   |                           |
| 26                          |       | +Authentication(TCV_ch, cksn, rand)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                          |   |                           |
| 27                          |       | L!DL_DatRqLupAcp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | LocAcp(TCV_ch, LocUpdtAcp_01(MiTmsi_01iei, mcc, mnc, TCV_lac))                           |   | Location Accept with TMSI |
| 28                          |       | L?DL_DatInTmsireCom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | TmsiReallocCmp(TCV_ch)                                                                   |   |                           |
| 29                          |       | +PostMainLinkRel(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                          |   | Release Ch                |
| 30                          |       | +localtree2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                          |   |                           |

|    |                                                                                                                                                                            |                                                     |                                                   |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|
| 31 | [StartType = C_Start_PLMNnot]                                                                                                                                              |                                                     |                                                   |
| 32 | LIDL_DatRqLupRej                                                                                                                                                           | LocRej(TCV_ch,<br>LocUpdtRej_01(C_rc-<br>plmn_not)) | Delete LAI, tmsi, cksn                            |
| 33 | +PostMainLinkRel(TCV_ch)                                                                                                                                                   |                                                     | Release Ch                                        |
| 34 | +localtree2                                                                                                                                                                |                                                     |                                                   |
| 35 | [(StartType <> C_Start_Rej)<br>AND(StartType <> C_Start_Tmsi)<br>AND(StartType <> C_Start_TmsiOff)<br>AND(StartType <> C_Start_Imsi)<br>AND(StartType <> C_Start_PLMNnot)] |                                                     | I                                                 |
| 36 | ?TIMEOUT T_dly                                                                                                                                                             |                                                     |                                                   |
| 37 | [StartType = C_Start_PLMNnot]                                                                                                                                              |                                                     | The PLMN is already in<br>SIM PLMN forbidden list |
| 38 | [StartType <> C_Start_PLMNnot]                                                                                                                                             |                                                     | I<br>No ChReq received:<br>Inconclusive           |
|    | <b>localtree2</b>                                                                                                                                                          |                                                     |                                                   |
| 39 | [(att = 1) AND(StartType <> C_Start_TmsiOff)]                                                                                                                              |                                                     | ATT no change                                     |
| 40 | [cch_con <> C_cch_1Comb]                                                                                                                                                   |                                                     | If non combined                                   |
| 41 | +localtree3                                                                                                                                                                |                                                     |                                                   |
| 42 | +ltree_PgReorg                                                                                                                                                             |                                                     |                                                   |
| 43 | [cch_con = C_cch_1Comb]                                                                                                                                                    |                                                     | If combined                                       |
| 44 | [(att = 1) AND (StartType = C_Start_TmsiOff)]                                                                                                                              |                                                     |                                                   |
| 45 | +ImsiDetach(MiTmsi_01, ta, C_SIMneedRmv)                                                                                                                                   |                                                     | Switch off, detach                                |
| 46 | [cch_con <> C_cch_1Comb]                                                                                                                                                   |                                                     | If non combined                                   |
| 47 | +localtree3                                                                                                                                                                |                                                     |                                                   |
| 48 | [cch_con = C_cch_1Comb]                                                                                                                                                    |                                                     | If combined                                       |
| 49 | [att = 0]                                                                                                                                                                  |                                                     |                                                   |
| 50 | [cch_con = C_cch_1Comb]                                                                                                                                                    |                                                     | If combined                                       |
| 51 | +ltree_sysinfo(0, C_cch_1Comb)                                                                                                                                             |                                                     | ATT=0                                             |
| 52 | +ltree_PgReorg                                                                                                                                                             |                                                     |                                                   |
| 53 | [cch_con <> C_cch_1Comb]                                                                                                                                                   |                                                     | If non combined                                   |
| 54 | +localtree3                                                                                                                                                                |                                                     |                                                   |
| 55 | +ltree_PgReorg                                                                                                                                                             |                                                     |                                                   |
|    | <b>localtree3</b>                                                                                                                                                          |                                                     |                                                   |
| 56 | (TCV_Ccd0H := CntrlChDscrp(att, babr, cch_con,<br>bpm, t3212))                                                                                                             |                                                     |                                                   |
| 57 | +Varinit_fix(activ_cell, lac, subch, cksn, rand,<br>arfcngsm, arfcndcs, imsi)                                                                                              |                                                     |                                                   |
| 58 | +ltree_chconf(cch_con)                                                                                                                                                     |                                                     | Config LT                                         |
| 59 | +ltree_sysinfo(att, cch_con)                                                                                                                                               |                                                     |                                                   |
|    | <b>ltree_PgReorg</b>                                                                                                                                                       |                                                     |                                                   |
| 60 | (TCV_Null:=OM_PgFill(activ_cell, PgReqTp1Reorg))                                                                                                                           |                                                     |                                                   |
| 61 | START T_dly(5000)                                                                                                                                                          |                                                     |                                                   |
| 62 | ?TIMEOUT T_dly                                                                                                                                                             |                                                     |                                                   |
| 63 | (TCV_Null:=OM_PgFill(activ_cell,<br>PgReqTp1Norm))                                                                                                                         |                                                     |                                                   |
|    | <b>ltree_sysinfo(attach:INTEGER; con_ch:B_3)</b>                                                                                                                           |                                                     |                                                   |
| 64 | [activ_cell = C_CellA]                                                                                                                                                     |                                                     |                                                   |
| 65 | +SysInfoSending(attach, con_ch)                                                                                                                                            |                                                     | SI1-4, cellA                                      |
| 66 | (TCV_Ccd0A := TCV_Ccd0H, TCV_sysinfo5 :=<br>TCV_sysinfo5, TCV_sysinfo6 := TCV_sysinfo6)                                                                                    |                                                     |                                                   |
| 67 | [con_ch = C_cch_1Comb]                                                                                                                                                     |                                                     | If combined                                       |
| 68 | +SysInfo_SacchSending(TCV_sacch,<br>TCV_sysinfo5, TCV_sysinfo6)                                                                                                            |                                                     | SI5, 6 on SACCH/C4, cell<br>A                     |
| 69 | [con_ch <> C_cch_1Comb]                                                                                                                                                    |                                                     |                                                   |
| 70 | +ltree_sysinfo_other(attach)                                                                                                                                               |                                                     | More SIs, cellA                                   |
| 71 | [activ_cell = C_CellB]                                                                                                                                                     |                                                     |                                                   |
| 72 | +SysInfoSending(attach, con_ch)                                                                                                                                            |                                                     | SI1-4, cellB                                      |
| 73 | (TCV_Ccd0B := TCV_Ccd0H, TCV_sacch_B :=<br>TCV_sacch, TCV_sysinfo5_B := TCV_sysinfo5,<br>TCV_sysinfo6_B := TCV_sysinfo6)                                                   |                                                     | SI5, 6 on SACCH/C4, cell<br>B                     |
| 74 | [con_ch = C_cch_1Comb]                                                                                                                                                     |                                                     | If combined                                       |

|     |                                                                                                                                                                                                            |                                   |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| 75  | +SysInfo_SacchSending(TCV_sacch_B,<br>TCV_sysinfo5_B, TCV_sysinfo6_B)                                                                                                                                      | SI5, 6 on SACCH/C4, cell A        |
| 76  | [con_ch <> C_cch_1Comb]                                                                                                                                                                                    | No more SIs, cell B               |
| 77  | [activ_cell = C_CellC]                                                                                                                                                                                     |                                   |
| 78  | +SysInfoSending(attach, con_ch)                                                                                                                                                                            | SI1-4, cellC                      |
| 79  | (TCV_Ccd0C := TCV_Ccd0H, TCV_sacch_C :=<br>TCV_sacch, TCV_sysinfo5_C := TCV_sysinfo5,<br>TCV_sysinfo6_C := TCV_sysinfo6)                                                                                   |                                   |
| 80  | [con_ch = C_cch_1Comb]                                                                                                                                                                                     | If combined                       |
| 81  | +SysInfo_SacchSending(TCV_sacch_C,<br>TCV_sysinfo5_C, TCV_sysinfo6_C)                                                                                                                                      | SI5, 6 on SACCH/C4, cell C        |
| 82  | [con_ch <> C_cch_1Comb]                                                                                                                                                                                    | No more SIs, cell C               |
|     | <b>SysInfoSending(attachb:INTEGER; con_chs:B_3)</b>                                                                                                                                                        |                                   |
| 83  | [sysinfofb = C_Test_fh]                                                                                                                                                                                    | Hopping                           |
| 84  | +SysInfoSending_fh(sch, bcch, t, retr, neci, attachb,<br>babr, con_chs, bpm, t3212, ci, mcc, mnc, lac, co,<br>cchdgs, cchddcs, crh, mtmcgs, mtmcdcs,<br>bcchflgs, bcchfldcs, Re, bcc, ncc, nccp)           |                                   |
| 85  | [sysinfofb = C_Test_nfh]                                                                                                                                                                                   | Non hopping                       |
| 86  | +SysInfoSending_nfh(sch, bcch, t, retr, neci,<br>attachb, babr, con_chs, bpm, t3212, ci, mcc, mnc,<br>lac, co, crh, mtmcgs, mtmcdcs, bcchflgs,<br>bcflaltgs, bcchfldcs, bcflaltdcs, Re, bcc, ncc,<br>nccp) |                                   |
| 87  | [sysinfofb = C_Test_egsm]                                                                                                                                                                                  | EGSM                              |
| 88  | +SysInfoSending_e(sch, bcch, t, retr, neci, attachb,<br>babr, con_chs, bpm, t3212, ci, mcc, mnc, lac, co,<br>cchdgs, crh, mtmcgs, bcchflgs, bcchfldcs, Re,<br>bcc, ncc, nccp)                              |                                   |
| 89  | [sysinfofb = C_Test_cbms]                                                                                                                                                                                  | CBMS                              |
| 90  | +SysInfoSending_cbms(sch, bcch, t, retr, neci,<br>attachb, babr, con_chs, bpm, t3212, ci, mcc, mnc,<br>lac, co, crh, mtmcgs, mtmcdcs, bcchflgs,<br>bcchfldcs, Re, bcc, ncc, nccp, subch)                   |                                   |
|     | <b>ltree_chconf(conf:B_3)</b>                                                                                                                                                                              |                                   |
| 91  | [activ_cell = C_CellA]                                                                                                                                                                                     |                                   |
| 92  | +ltree_chconf_A(conf)                                                                                                                                                                                      | Config LT                         |
| 93  | [activ_cell = C_CellB]                                                                                                                                                                                     |                                   |
| 94  | +ltree_chconf_B(conf)                                                                                                                                                                                      | Config LT                         |
| 95  | [activ_cell = C_CellC]                                                                                                                                                                                     |                                   |
| 96  | +ltree_chconf_C(conf)                                                                                                                                                                                      | Config LT                         |
|     | <b>ltree_chconf_A(conf_a:B_3)</b>                                                                                                                                                                          |                                   |
| 97  | [conf_a = C_cch_1nonComb]                                                                                                                                                                                  |                                   |
| 98  | +NonCombinedBCCH_A(par_bspwr, mtmcgs,<br>mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta,<br>babr, conf_a, bpm)                                                                                        | 1 non combined CCCH,<br>cell A    |
| 99  | (TCV_Upd := C_NotCombined)                                                                                                                                                                                 |                                   |
| 100 | [conf_a = C_cch_1Comb]                                                                                                                                                                                     |                                   |
| 101 | [sysinfofb <> C_Test_cbms]                                                                                                                                                                                 |                                   |
| 102 | +CombinedBCCH_A(par_bspwr, mtmcgs,<br>mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc,<br>ta, babr, conf_a, bpm)                                                                                           | 1 combined CCCH, cell A           |
| 103 | (TCV_Upd := C_Combined)                                                                                                                                                                                    |                                   |
| 104 | [sysinfofb = C_Test_cbms]                                                                                                                                                                                  |                                   |
| 105 | +CombinedBCCH_A_CBMS(par_bspwr,<br>mtmcgs, mtmcdcs, arfcngsm, arfcndcs, acttype,<br>slot, tsc, ta, babr, conf_a, bpm)                                                                                      | 1 combined CCCH +<br>CBMS, cell A |
| 106 | (TCV_Upd := C_Combined)                                                                                                                                                                                    |                                   |
| 107 | [conf_a = C_cch_2nonComb]                                                                                                                                                                                  | 2 CCCHs                           |
| 108 | +NonCombinedBCCH_A(par_bspwr, mtmcgs,<br>mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta,<br>babr, conf_a, bpm)                                                                                        | 1st non combined CCCH,<br>cell A  |
| 109 | +NonCombinedBCCH_A_2(acttype, slot2, tsc, ta,<br>babr, conf_a, bpm)                                                                                                                                        | 2nd non combined<br>CCCH, cell A  |
| 110 | (TCV_Upd := C_NotCombined)                                                                                                                                                                                 |                                   |
| 111 | [conf_a = C_cch_3nonComb]                                                                                                                                                                                  |                                   |

|     |                                                                                                                                                                                                                     |   |                                 |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------------------------------|
| 112 | +NonCombinedBCCH_A(par_bspwr, mtmcgsm, mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_a, bpm)                                                                                                      |   | 1st non combined CCCH, cell A   |
| 113 | +NonCombinedBCCH_A_2(acttype, slot2, tsc, ta, babr, conf_a, bpm)                                                                                                                                                    |   | 2nd non combined CCCH, cell A   |
| 114 | +NonCombinedBCCH_A_3(acttype, slot3, tsc, ta, babr, conf_a, bpm)                                                                                                                                                    |   | 3rd non combined CCCH, cell A   |
| 115 | (TCV_Upd := C_NotCombined)                                                                                                                                                                                          |   |                                 |
| 116 | [conf_a = C_cch_4nonComb]                                                                                                                                                                                           |   |                                 |
| 117 | +NonCombinedBCCH_A(par_bspwr, mtmcgsm, mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_a, bpm)                                                                                                      |   | 1st non combined CCCH, cell A   |
| 118 | +NonCombinedBCCH_A_2(acttype, slot2, tsc, ta, babr, conf_a, bpm)                                                                                                                                                    |   | 2nd non combined CCCH, cell A   |
| 119 | +NonCombinedBCCH_A_3(acttype, slot3, tsc, ta, babr, conf_a, bpm)                                                                                                                                                    |   | 3rd non combined CCCH, cell A   |
| 120 | +NonCombinedBCCH_A_4(acttype, slot4, tsc, ta, babr, conf_a, bpm)                                                                                                                                                    |   | 4th non combined CCCH, cell A   |
| 121 | (TCV_Upd := C_NotCombined)                                                                                                                                                                                          |   |                                 |
| 122 | [(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)]                                                                   | I | A wrong CCCH-CONF value, cell A |
|     | <b>ltree_chconf_B(conf_b:B_3)</b>                                                                                                                                                                                   |   |                                 |
| 123 | [conf_b = C_cch_1nonComb]                                                                                                                                                                                           |   |                                 |
| 124 | +NonCombinedBCCH_B(par_bspwr, mtmcgsm, mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_b, bpm)                                                                                                      |   | 1 non combined CCCH, cell B     |
| 125 | (TCV_Upd := C_NotCombined)                                                                                                                                                                                          |   |                                 |
| 126 | [conf_b = C_cch_1Comb]                                                                                                                                                                                              |   |                                 |
| 127 | +CombinedBCCH_B(par_bspwr, mtmcgsm, mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_b, bpm)                                                                                                         |   | 1 combined CCCH, cell B         |
| 128 | (TCV_Upd := C_Combined)                                                                                                                                                                                             |   |                                 |
| 129 | [(conf_b <> C_cch_1nonComb) AND(conf_b <> C_cch_1Comb)]                                                                                                                                                             | I | A wrong CCCH-CONF value, cell B |
|     | <b>ltree_chconf_C(conf_c:B_3)</b>                                                                                                                                                                                   |   |                                 |
| 130 | [conf_c = C_cch_1Comb]                                                                                                                                                                                              |   |                                 |
| 131 | +CombinedBCCH_C(par_bspwr, mtmcgsm, mtmcdcs, arfcngsm, arfcndcs, acttype, slot, tsc, ta, babr, conf_c, bpm)                                                                                                         |   | 1 combined CCCH, cell C         |
| 132 | (TCV_Upd := C_Combined)                                                                                                                                                                                             |   |                                 |
| 133 | [conf_c <> C_cch_1Comb]                                                                                                                                                                                             | I |                                 |
|     | <b>ltree_sysinfo_other(attach:INTEGER)</b>                                                                                                                                                                          |   |                                 |
| 134 | [(cch_con = C_cch_1nonComb) OR (cch_con = C_cch_1Comb)]                                                                                                                                                             |   |                                 |
| 135 | [cch_con = C_cch_2nonComb]                                                                                                                                                                                          |   |                                 |
| 136 | +SysInfoSending_fh(sch, C_BCCH_A_2, t, retr, neci, attach, babr, cch_con, bpm, t3212, ci, mcc, mnc, lac, co, CellChDes_02, CellChDes_03, crh, mtmcgsm, mtmcdcs, BcchFreqLst_01, BcchFreqLst_48, Re, bcc, ncc, nccp) |   | SIs on 2nd CCCH                 |
| 137 | [cch_con = C_cch_3nonComb]                                                                                                                                                                                          |   |                                 |
| 138 | +SysInfoSending_fh(sch, C_BCCH_A_2, t, retr, neci, attach, babr, cch_con, bpm, t3212, ci, mcc, mnc, lac, co, CellChDes_02, CellChDes_03, crh, mtmcgsm, mtmcdcs, BcchFreqLst_01, BcchFreqLst_48, Re, bcc, ncc, nccp) |   | SIs on 2nd CCCH                 |
| 139 | +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                 |
| 140 | [cch_con = C_cch_4nonComb]                                                                                                                                                                                          |   |                                 |
| 141 | +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,                                     |   | SIs on 2nd CCCH                 |

|                           |                                                                                                                                                                                                                                                                        |           |                                              |                              |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------|------------------------------|
| 142                       | BcchFreqLst_48, Re, bcc, ncc, nccp)<br>+SysInfoSending_fh(sch, C_BCCH_A_3, t, retr,<br>neci, attach, babr, cch_con, bpm, t3212, ci, mcc,<br>mnc, lac, co, CellChDes_02, CellChDes_03, crh,<br>mtmcgsm, mtmcdcs, BcchFreqLst_01,<br>BcchFreqLst_48, Re, bcc, ncc, nccp) |           |                                              | Slts on 3rd CCCH             |
| 143                       | +SysInfoSending_fh(sch, C_BCCH_A_4, t, retr,<br>neci, attach, babr, cch_con, bpm, t3212, ci,<br>mcc, mnc, lac, co, CellChDes_02,<br>CellChDes_03, crh, mtmcgsm, mtmcdcs,<br>BcchFreqLst_01, BcchFreqLst_48, Re, bcc,<br>ncc, nccp)                                     |           |                                              | Slts on 4th CCCH             |
| <b>Detailed Comments:</b> |                                                                                                                                                                                                                                                                        |           |                                              |                              |
|                           | par_bspwr                                                                                                                                                                                                                                                              | INTEGER   | Base station power level                     | C_E_default, C_E_suitable    |
|                           | activ_cell                                                                                                                                                                                                                                                             | CellID    | Activated cell identity                      | C_CellA, C_CellB, C_CellC    |
|                           | sch                                                                                                                                                                                                                                                                    | LOGICCH   | Sync. channel identity                       |                              |
|                           |                                                                                                                                                                                                                                                                        |           | If formal para activ_cell = C_CellA,         | C_SCH_A                      |
|                           |                                                                                                                                                                                                                                                                        |           | If formal para activ_cell = C_CellB,         | C_SCH_B                      |
|                           |                                                                                                                                                                                                                                                                        |           | If formal para activ_cell = C_CellC,         | C_SCH_C                      |
|                           | bcch                                                                                                                                                                                                                                                                   | LOGICCH   | 1st broadcast channel id                     |                              |
|                           |                                                                                                                                                                                                                                                                        |           | If formal para activ_cell = C_CellA,         | C_BCCH_A_1                   |
|                           |                                                                                                                                                                                                                                                                        |           | If formal para activ_cell = C_CellB,         | C_BCCH_B_1                   |
|                           |                                                                                                                                                                                                                                                                        |           | If formal para activ_cell = C_CellC,         | C_BCCH_C_1                   |
|                           | actype                                                                                                                                                                                                                                                                 | BITSTRING | Type for activation of a channel             | C_Immass                     |
|                           | slot                                                                                                                                                                                                                                                                   | SN        | Slot number for the 1st slot                 | C_S0                         |
|                           | slot2                                                                                                                                                                                                                                                                  | SN        | Slot number for the 2nd slot                 |                              |
|                           |                                                                                                                                                                                                                                                                        |           | In case of 2 or 3 or 4 non combined CCCH     | C_S2                         |
|                           |                                                                                                                                                                                                                                                                        |           | Otherwise (1 combined or 1 non combined)     | C_SlotNU                     |
|                           | slot3                                                                                                                                                                                                                                                                  | SN        | Slot number for the 3rd slot                 |                              |
|                           |                                                                                                                                                                                                                                                                        |           | In case of 3 or 4 non combined CCCH          | C_S4                         |
|                           |                                                                                                                                                                                                                                                                        |           | Otherwise (1 combined or 1, 2 non combined)  | C_SlotNU                     |
|                           | slot4                                                                                                                                                                                                                                                                  | SN        | Slot number for the 4th slot                 |                              |
|                           |                                                                                                                                                                                                                                                                        |           | In case of 4 non combined CCCH channels      | C_S6                         |
|                           |                                                                                                                                                                                                                                                                        |           | Otherwise (1 combined, 1, 2, 3 non combined) | C_SlotNU                     |
|                           | tsc                                                                                                                                                                                                                                                                    | TSC       | Training Sequence code                       | C_BCC                        |
|                           | t                                                                                                                                                                                                                                                                      | INTEGER   | Rach Control Parameter field, Tx-Integer     |                              |
|                           |                                                                                                                                                                                                                                                                        |           | for SysInfo1, SysInfo2, SysInfo3, SysInfo4   | C_TxInt_5,<br>C_TxInt_7,     |
|                           | retr                                                                                                                                                                                                                                                                   | INTEGER   | Rach Control Parameter field, Max-Retrans    |                              |
|                           |                                                                                                                                                                                                                                                                        |           | for SysInfo1, SysInfo2, SysInfo3, SysInfo4   | C_Max_1,<br>C_Max_2,         |
|                           | neci                                                                                                                                                                                                                                                                   | INTEGER   | Requested value f. NECI bit in test case     | C_NECI_0,<br>C_NECI_1        |
|                           | att                                                                                                                                                                                                                                                                    | INTEGER   | Requested value f. ATTACH bit in test case   | C_ATT_0,                     |
|                           |                                                                                                                                                                                                                                                                        |           | C_ATT_1                                      |                              |
|                           | ta                                                                                                                                                                                                                                                                     | TA        | Requested Timing Advance value               |                              |
|                           | babr                                                                                                                                                                                                                                                                   | B_3       | Number of blocks reserved for access grant   |                              |
|                           |                                                                                                                                                                                                                                                                        |           | If arbitrary                                 | TSPX_AGBLKs                  |
|                           |                                                                                                                                                                                                                                                                        |           | 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                          |
|            |           | 4 non combined CCCH channels                                                                  | C_cch_4nonComb                          |
| bpm        | B_3       | Number of multiframes for transmission of PAGING REQUEST messages to the same paging subgroup |                                         |
|            |           | If arbitrary                                                                                  | TSPX_PAMFRMSx                           |
|            |           | If fixed (2, 4, 5, 9 multiframes)                                                             | C_BPM_0, C_BPM_2, C_BPM_3, C_BPM_7      |
| t3212      | OCTETSTR. | Requested value for T3212 in test case 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 Country 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                            |
| mtmcdcs    | INTEGER   | Requested maximum power level for DCS MS                                                      | C_MaxPwrLvID                            |
| bcchfgsm   | NCD       | Neighbour Cells Description for GSM                                                           | BcchFreqLst_xx                          |
| bcflaltgsm | NCD       | Alternative Neighbour Cells Description for GSM.                                              |                                         |
|            |           | If sysinfonb = C_Test_nfh                                                                     | Alternat.GSM BcchFreqLst_xx             |
|            |           | Otherwise:                                                                                    | BcchFreqLst_Omit                        |
| bcchfdcs   | NCD       | Neighbour Cells Description for DCS                                                           | BcchFreqLst_xx                          |
| bcflaltdcs | NCD       | Alternative Neighbour Cells Description for DCS                                               |                                         |
|            |           | If sysinfonb = C_Test_nfh                                                                     | Alternat.DCS BcchFreqLst_xx             |
|            |           | Otherwise:                                                                                    | BcchFreqLst_Omit                        |

Re B\_1 Rach Control Parameter field,  
 Re-establishment bit for SysInfo1,  
 SysInfo2, SysInfo3, SysInfo4 C\_Reestablishment,  
 C\_noReestablishmen

bcc BCC Base station Colour Code C\_BCC

ncc NCC Network Colour 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 sysinfonb = C\_Test\_fh C\_Noarfcn  
 Otherwise:  
 C\_arfcnA\_x If activ\_cell = C\_CellB C\_arfcnB\_x If  
 activ\_cell = C\_CellC C\_arfcnC\_x

arfcndcs INTEGER BCCH channel ARFCN (DCS)  
 If sysinfonb = C\_Test\_fh C\_Noarfcn  
 Otherwise:  
 C\_arfcnAd\_x If activ\_cell = C\_CellB C\_arfcnBd\_x If  
 activ\_cell = C\_CellC C\_arfcnCd\_x

imsi HEXSTRING The expected IMSI TSPX\_IMSI  
 In TC\_26\_7\_3\_2 C\_shortIMSI

sysinfonb INTEGER Type of sysinfo sending  
 Frequency Hopping C\_Test\_fh  
 Non Frequency hopping C\_Test\_nfh  
 EGSM sequence C\_Test\_egsm  
 CBMS sequence C\_Test\_cbms

nccp NCCP Network Country Code Permitted  
 in SysInfo2 C\_NCCP\_2, C\_NCCP\_5



| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                             |      |   |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | 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)                                                                                                                                                                                 |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Preambles/                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
| <b>Objective:</b>           |       | To broadcast SYSTEM INFORMATION messages 2, 3, 4, 5 and 6 containing default parameters in cell A with the following exceptions :<br>- legal combination of CCCH-CONF, BS-AG-BLKS-RES, BS-PA-MFRMS are specified by parameters<br>- max retransmission and tx-integer can be assigned,<br>The test system is then waiting for the SUT (MS) entering the Idle updated state. |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
| <b>Comments:</b>            |       | The preamble is used for the RR tests.                                                                                                                                                                                                                                                                                                                                      |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                       | CRef | V | 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_noReestablishment, 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_noReestablishment, 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)                                                                                                                                                                                                                                                                                                             |      |   |          |
| 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_noReestablishment, 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_noReestablishment, 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,                                                                                                                                                                                                                                                                                                                                 |      |   |          |

|                           |  |                                                                                                                                                                                                                                                                                                                  |   |          |
|---------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------|
| 21                        |  | babr, cch_con, bpm)<br>+NonCombinedBCCH_A_4(acttype,slot4,tsc, ta,<br>babr, cch_con, bpm)                                                                                                                                                                                                                        |   |          |
| 22                        |  | +SysInfoSending_fh(C_SCH_A,<br>C_BCCH_A_2, tx, retrans, 0, att, babr,<br>cch_con, bpm, t3212, C_ci_cellA, mcc, mnc,<br>lac, CellOpt_01, CellChDes_02,<br>CellChDes_03, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_01, BcchFreqLst_48,<br>C_noReestablishment, C_BCC, C_NCC,<br>C_NCCP_2) |   |          |
| 23                        |  | +SysInfoSending_fh(C_SCH_A,<br>C_BCCH_A_3, tx, retrans, 0, att, babr,<br>cch_con, bpm, t3212, C_ci_cellA, mcc,<br>mnc, lac, CellOpt_01, CellChDes_02,<br>CellChDes_03, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_01, BcchFreqLst_48,<br>C_noReestablishment, C_BCC, C_NCC,<br>C_NCCP_2) |   |          |
| 24                        |  | +SysInfoSending_fh(C_SCH_A,<br>C_BCCH_A_4, tx, retrans, 0, att, babr,<br>cch_con, bpm, t3212, C_ci_cellA, mcc,<br>mnc, lac, CellOpt_01, CellChDes_02,<br>CellChDes_03, C_CellReselectHys12,<br>C_MaxPwrLvlG, C_MaxPwrLvlD,<br>BcchFreqLst_01, BcchFreqLst_48,<br>C_noReestablishment, C_BCC, C_NCC,<br>C_NCCP_2) |   |          |
| 25                        |  | +localtree                                                                                                                                                                                                                                                                                                       |   |          |
| 26                        |  | [cch_con = C_cch_NotAllowed]                                                                                                                                                                                                                                                                                     | I | Reserved |
| 27                        |  | <b>localtree</b><br>+NonCombinedBCCH_A(63, C_MaxPwrLvlG,<br>C_MaxPwrLvlD, C_arfcnA, C_arfcnAd,<br>acttype,slot,tsc, ta, babr, cch_con, bpm)                                                                                                                                                                      |   |          |
| 28                        |  | +SysInfoSending_fh(C_SCH_A, C_BCCH_A_1, tx,<br>retrans, 0, att, babr, cch_con, bpm, t3212,<br>C_ci_cellA, mcc, mnc, lac, CellOpt_01,<br>CellChDes_02, CellChDes_03,<br>C_CellReselectHys12, C_MaxPwrLvlG,<br>C_MaxPwrLvlD, BcchFreqLst_01, BcchFreqLst_48,<br>C_noReestablishment, C_BCC, C_NCC,<br>C_NCCP_2)    |   |          |
| 29                        |  | (TCV_Ccd0A := TCV_Ccd0H, TCV_sysinfo5 :=<br>TCV_sysinf5, TCV_sysinfo6 := TCV_sysinf6)                                                                                                                                                                                                                            |   |          |
| <b>Detailed Comments:</b> |  |                                                                                                                                                                                                                                                                                                                  |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                  |                               |   |                                |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------|-------------------------------|---|--------------------------------|
| <b>Test Step Name:</b>      |       | PreEnterCCstateU01_21(ta:TA)                                                                     |                               |   |                                |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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                                                                                      |                               |   |                                |
| Nr                          | Label | Behaviour Description                                                                            | CRef                          | V | Comments                       |
| 1                           |       | +CCEstablishMO_SDCCH4(ta)                                                                        |                               |   | 1.                             |
| 2                           |       | ACTIVATE(OtherEvents_02)                                                                         |                               |   | To match ChReq retrans.        |
| 3                           |       | L?DL_EstInCmsRq                                                                                  | CMSerReq(CMServic<br>eReq_04) |   |                                |
| 4                           |       | ACTIVATE(OtherEvents)                                                                            |                               |   | Restore Normal default<br>tree |
| <b>Detailed Comments:</b>   |       | 1. To assign SDCCH4 channel.                                                                     |                               |   |                                |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                  |      |   |          |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | PreEnterCCstateU1_21(ta:TA)                                                                                                                                                                                                                                                                                      |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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 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                                                                                                                                                                                                                                                                                            | CRef | V | Comments |
| 1                           |       | +PreEnterCCstateU01_21(ta)                                                                                                                                                                                                                                                                                       |      |   |          |
| 2                           |       | +Ciphering_on(TCV_ch)                                                                                                                                                                                                                                                                                            |      |   |          |
| 3                           |       | +RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)                                                                                                                                                                                                                                                           |      |   |          |
| 4                           |       | +CCstatuschk_02(TCV_ch, C_U1, TCV_TI, TCV_TI0)                                                                                                                                                                                                                                                                   |      |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                                                                                  |      |   |          |

| Test Step Dynamic Behaviour                  |       |                                                                                                                                                                                       |                            |   |                         |
|----------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---|-------------------------|
| <b>Test Step Name:</b>                       |       | PreEnterCCstateU1_22(slot:SN; tsc:TSC; ta:TA)                                                                                                                                         |                            |   |                         |
| <b>Group:</b>                                |       | GSM_L3_MS_v4180/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 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                                                                                                                                                                 | CRef                       | V | 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(CMServic eReq_04) |   |                         |
| 4                                            |       | ACTIVATE(OtherEvents)                                                                                                                                                                 |                            |   | Restore Normal default  |
| 5                                            |       | +CCModifyTCH(slot, tsc)                                                                                                                                                               |                            |   |                         |
| 6                                            |       | +Ciphering_on(TCV_chTch)                                                                                                                                                              |                            |   |                         |
| 7                                            |       | +RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)                                                                                                                                |                            |   |                         |
| 8                                            |       | +CCstatuschk_02(TCV_chTch, C_U1, TCV_TI, TCV_TI0)                                                                                                                                     |                            |   | 2.                      |
| <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                  |       |                                                                                                                                                                                       |                            |   |                         |
|----------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---|-------------------------|
| <b>Test Step Name:</b>                       |       | PreEnterCCstateU1_22Timer(slot:SN; tsc:TSC; ta:TA)                                                                                                                                    |                            |   |                         |
| <b>Group:</b>                                |       | GSM_L3_MS_v4180/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 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                                                                                                                                                                 | CRef                       | V | Comments                |
| 1                                            |       | +CCEstablishMO_TCH(slot, tsc, ta)                                                                                                                                                     |                            |   | 1.                      |
| 2                                            |       | ACTIVATE(OtherEvents_02)                                                                                                                                                              |                            |   | To match ChReq retrans. |
| 3                                            |       | L?DL_EstInCmsRq (TCV_Fn :=DL_EstInCmsRq.fn) START T_dly(45000)                                                                                                                        | CMSerReq(CMServic eReq_04) |   |                         |
| 4                                            |       | ACTIVATE(OtherEvents)                                                                                                                                                                 |                            |   | Restore Normal default  |
| 5                                            |       | +CCModifyTCH(slot, tsc)                                                                                                                                                               |                            |   |                         |
| 6                                            |       | +Ciphering_on(TCV_chTch)                                                                                                                                                              |                            |   |                         |
| 7                                            |       | +RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)                                                                                                                                |                            |   |                         |
| 8                                            |       | +CCstatuschk_02(TCV_chTch, C_U1, TCV_TI, TCV_TI0)                                                                                                                                     |                            |   | 2.                      |
| <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 |       |                                                                                                                                                                                       |                                                |   |                         |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---|-------------------------|
| <b>Test Step Name:</b>      |       | PreEnterCCstateU1_24(slot:SN; tsc:TSC; ta:TA)                                                                                                                                         |                                                |   |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Preambles/                                                                                                                                                            |                                                |   |                         |
| <b>Objective:</b>           |       | To bring the MS into CC state U1 by procedure in table 26.8.1.2/4. This is used in CC testing.                                                                                        |                                                |   |                         |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                           |                                                |   |                         |
| <b>Comments:</b>            |       | 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                                                                                                                                                                 | CRef                                           | V | Comments                |
| 1                           |       | +CCEstablishMO_TCH(slot, tsc, ta)                                                                                                                                                     |                                                |   | 1.                      |
| 2                           |       | ACTIVATE(OtherEvents_02)                                                                                                                                                              |                                                |   | To match ChReq retrans. |
| 3                           |       | L?DL_EstInCmsRq                                                                                                                                                                       | CMSerReq(CMServic<br>eReq_04)                  |   |                         |
| 4                           |       | ACTIVATE(OtherEvents)                                                                                                                                                                 |                                                |   | Restore Normal default  |
| 5                           |       | L!DL_DatRqldRq                                                                                                                                                                        | IDReq(TCV_chTch,<br>IDRequest_01('0001'<br>B)) |   | IMSI.                   |
| 6                           |       | L?DL_DatInIdRes                                                                                                                                                                       | IDRes(IDResponse_3<br>0(Milmsi_01))            |   |                         |
| 7                           |       | +Cipherring_on(TCV_chTch)                                                                                                                                                             |                                                |   |                         |
| 8                           |       | +RcvSetupOrEsetup(TCV_Setup_mo,<br>TCV_Esetup, TCV_Ecall)                                                                                                                             |                                                |   |                         |
| 9                           |       | +CCstatuschk_02(TCV_chTch,<br>C_U1, TCV_TI, TCV_TI0)                                                                                                                                  |                                                |   |                         |
| <b>Detailed Comments:</b>   |       | 1. To assign TCH/F channel or TCH/H channel.                                                                                                                                          |                                                |   |                         |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                 |                                                                                                                                     |   |                         |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------|
| <b>Test Step Name:</b>      |       | PreEnterCCstateU1(ta:TA)                                                                                                                                                                                                        |                                                                                                                                     |   |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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 cipherring key. |                                                                                                                                     |   |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                           | CRef                                                                                                                                | V | Comments                |
| 1                           |       | +InitCall(TCV_Service)                                                                                                                                                                                                          |                                                                                                                                     |   | 1.                      |
| 2                           |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.<br>msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                | ChReq(ChRequest_0<br>4)                                                                                                             |   | To match ChReq retrans. |
| 3                           |       | ACTIVATE(OtherEvents_02)                                                                                                                                                                                                        |                                                                                                                                     |   |                         |
| 4                           |       | L!DL_UdatRqImmass                                                                                                                                                                                                               | ImmAss(TCV_agch,<br>ImmAsgn_01Def(TCV<br>_Rr, TCV_Fn,<br>TSPX_SDCCH4SubD<br>ef, TCV_slot,<br>TCV_tsc,<br>TCV_chdescr_arfcn,<br>ta)) |   |                         |
| 5                           |       | L?DL_EstInCmsRq                                                                                                                                                                                                                 | CMSerReq(CMServic<br>eReq_01)                                                                                                       |   |                         |
| 6                           |       | ACTIVATE(OtherEvents)                                                                                                                                                                                                           |                                                                                                                                     |   | Restore Normal default  |
| 7                           |       | +Authentication(TCV_ch,<br>TSPX_CKSNDDef, TSPX_RANDDef)                                                                                                                                                                         |                                                                                                                                     |   |                         |
| 8                           |       | +Cipherring_on(TCV_ch)                                                                                                                                                                                                          |                                                                                                                                     |   |                         |
| 9                           |       | +RcvSetupOrEsetup(TCV_Setup_mo,<br>TCV_Esetup, TCV_Ecall)                                                                                                                                                                       |                                                                                                                                     |   | 2.                      |
| 10                          |       | +CCstatuschk_02(TCV_ch, C_U1,<br>TCV_TI, TCV_TI0)                                                                                                                                                                               |                                                                                                                                     |   |                         |
| <b>Detailed Comments:</b>   |       | 1. To attempt a outgoing call at the MS.<br>2. In the state U1 now.                                                                                                                                                             |                                                                                                                                     |   |                         |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                                              |                                   |   |          |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---|----------|
| <b>Test Step Name:</b>      |       | PreEnterCCstateU3(ta:TA)                                                                                                                                                                                                                                                     |                                   |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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 prepare 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                                                                                                                                                                                                                                                        | CRef                              | V | Comments |
| 1                           |       | +PreEnterCCstateU1(ta)                                                                                                                                                                                                                                                       |                                   |   | 1.       |
| 2                           |       | L!DL_DatRqCallProc                                                                                                                                                                                                                                                           | CallProc(TCV_ch,<br>TCV_CallProc) |   | 2.       |
| 3                           |       | +CCstatuschk_02(TCV_ch, C_U3, TCV_TI,<br>TCV_TI0)                                                                                                                                                                                                                            |                                   |   |          |
| <b>Detailed Comments:</b>   |       | 1. To initiate a mobile originating call at the MS.<br>2. Now in the state U3.                                                                                                                                                                                               |                                   |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                 |                                   |   |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---|----------|
| <b>Test Step Name:</b>      |       | PreEnterCCstateU3_21(ta:TA)                                                                                                                                                                                                                                                                                     |                                   |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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 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                                                                                                                                                                                                                                                                                           | CRef                              | V | Comments |
| 1                           |       | +PreEnterCCstateU1_21(ta)                                                                                                                                                                                                                                                                                       |                                   |   |          |
| 2                           |       | L!DL_DatRqCallProc                                                                                                                                                                                                                                                                                              | CallProc(TCV_ch,<br>TCV_CallProc) |   |          |
| 3                           |       | +CCstatuschk_02(TCV_ch, C_U3, TCV_TI,<br>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>               |       | GSM_L3_MS_v4180/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 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                                                                                                                                                                 | CRef                                 | V | Comments |
| 1                           |       | +PreEnterCCstateU1_22(slot, tsc, ta)                                                                                                                                                  |                                      |   |          |
| 2                           |       | L!DL_DatRqCallProc                                                                                                                                                                    | CallProc(TCV_chTch,<br>TCV_CallProc) |   |          |
| 3                           |       | +CCstatuschk_02(TCV_chTch, C_U3, TCV_TI,<br>TCV_TI0)                                                                                                                                  |                                      |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                       |                                      |   |          |

| Test Step Dynamic Behaviour                                                                                                                                                                                                                                                                                                 |       |                                                           |                                   |   |                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------|-----------------------------------|---|--------------------------------|
| <b>Test Step Name:</b> PreEnterCCstateU3_23(ta:TA)                                                                                                                                                                                                                                                                          |       |                                                           |                                   |   |                                |
| <b>Group:</b> GSM_L3_MS_v4180/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 transaction identifier from the MS, and TCV_TI contains the transaction identifier for test system to send CC message. Their values 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                                     | CRef                              | V | Comments                       |
| 1                                                                                                                                                                                                                                                                                                                           |       | +CCEstablishMO_SDCCH4(ta)                                 |                                   |   | To match ChReq retrans.        |
| 2                                                                                                                                                                                                                                                                                                                           |       | ACTIVATE(OtherEvents_02)                                  |                                   |   |                                |
| 3                                                                                                                                                                                                                                                                                                                           |       | L?DL_EstInCmsRq                                           | CMSerReq(CMServic<br>eReq_04)     |   | Restore Normal default<br>tree |
| 4                                                                                                                                                                                                                                                                                                                           |       | ACTIVATE(OtherEvents)                                     |                                   |   |                                |
| 5                                                                                                                                                                                                                                                                                                                           |       | +Ciphering_on(TCV_ch)                                     |                                   |   |                                |
| 6                                                                                                                                                                                                                                                                                                                           |       | +RcvSetupOrEsetup(TCV_Setup_mo,<br>TCV_Esetup, TCV_Ecall) |                                   |   |                                |
| 7                                                                                                                                                                                                                                                                                                                           |       | +Authentication(TCV_ch,<br>TSPX_CKSNDf, TSPX_RANDDf)      |                                   |   |                                |
| 8                                                                                                                                                                                                                                                                                                                           |       | L!DL_DatRqCallProc                                        | CallProc(TCV_ch,<br>TCV_CallProc) |   |                                |
| 9                                                                                                                                                                                                                                                                                                                           |       | +CCstatuschk_02(TCV_ch, C_U3,<br>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> GSM_L3_MS_v4180/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 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                                | CRef                                 | V | Comments |
| 1                                                                                                                                                                                                      |       | +PreEnterCCstateU1_24(slot, tsc, ta)                 |                                      |   |          |
| 2                                                                                                                                                                                                      |       | +CCModifyTCH(slot, tsc)                              |                                      |   |          |
| 3                                                                                                                                                                                                      |       | L!DL_DatRqCallProc                                   | CallProc(TCV_chTch,<br>TCV_CallProc) |   |          |
| 4                                                                                                                                                                                                      |       | +CCstatuschk_02(TCV_chTch, C_U3, TCV_TI,<br>TCV_TI0) |                                      |   |          |
| <b>Detailed Comments:</b>                                                                                                                                                                              |       |                                                      |                                      |   |          |

| Test Step Dynamic Behaviour                                                                                                                                                                            |       |                                                   |                                          |   |          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------|------------------------------------------|---|----------|
| <b>Test Step Name:</b> PreEnterCCstateU4_21(ta:TA)                                                                                                                                                     |       |                                                   |                                          |   |          |
| <b>Group:</b> GSM_L3_MS_v4180/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 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                             | CRef                                     | V | Comments |
| 1                                                                                                                                                                                                      |       | +PreEnterCCstateU3_21(ta)                         |                                          |   |          |
| 2                                                                                                                                                                                                      |       | L!DL_DatRqAlert                                   | AlertSnd(TCV_ch,<br>Alerting_01(TCV_TI)) |   |          |
| 3                                                                                                                                                                                                      |       | +CCstatuschk_02(TCV_ch, C_U4, TCV_TI,<br>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>               |       | GSM_L3_MS_v4180/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_TIO 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                                                                                                                                                                 | CRef                                     | V | Comments |
| 1                           |       | +PreEnterCCstateU3_22(slot, tsc, ta)                                                                                                                                                  |                                          |   |          |
| 2                           |       | LIDL_DatRqAlert                                                                                                                                                                       | AlertSnd(TCV_chTch, Alerting_01(TCV_TI)) |   |          |
| 3                           |       | +CCstatuschk_02(TCV_chTch, C_U4, TCV_TI, TCV_TIO)                                                                                                                                     |                                          |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                       |                                          |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                  |                                          |   |          |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---|----------|
| <b>Test Step Name:</b>      |       | PreEnterCCstateU4_23(slot:SN; tsc:TSC; ta:TA)                                                                                                                                                                                                                                                                    |                                          |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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_TIO 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                                                                                                                                                                                                                                                                                            | CRef                                     | V | Comments |
| 1                           |       | +PreEnterCCstateU3_23(ta)                                                                                                                                                                                                                                                                                        |                                          |   |          |
| 2                           |       | +CCAssignTCH(slot, tsc)                                                                                                                                                                                                                                                                                          |                                          |   |          |
| 3                           |       | LIDL_DatRqAlert                                                                                                                                                                                                                                                                                                  | AlertSnd(TCV_chTch, Alerting_01(TCV_TI)) |   |          |
| 4                           |       | +CCstatuschk_02(TCV_chTch, C_U4, TCV_TI, TCV_TIO)                                                                                                                                                                                                                                                                |                                          |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                                                                                  |                                          |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                       |                                          |   |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---|----------|
| <b>Test Step Name:</b>      |       | PreEnterCCstateU4_24(slot:SN; tsc:TSC; ta:TA)                                                                                                                                         |                                          |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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_TIO 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                                                                                                                                                                 | CRef                                     | V | Comments |
| 1                           |       | +PreEnterCCstateU3_24(slot, tsc, ta)                                                                                                                                                  |                                          |   |          |
| 2                           |       | LIDL_DatRqAlert                                                                                                                                                                       | AlertSnd(TCV_chTch, Alerting_01(TCV_TI)) |   |          |
| 3                           |       | +CCstatuschk_02(TCV_chTch, C_U4, TCV_TI, TCV_TIO)                                                                                                                                     |                                          |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                       |                                          |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                |                                   |   |          |
|-----------------------------|-------|------------------------------------------------------------------------------------------------|-----------------------------------|---|----------|
| <b>Test Step Name:</b>      |       | PreEnterCCstateU6_32(ta:TA)                                                                    |                                   |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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                                                                          | CRef                              | V | Comments |
| 1                           |       | (TCV_Setup_mt.sig :=Signal_01)                                                                 |                                   |   | 1.       |
| 2                           |       | +CCEstablishMT_SDCCH4(ta)                                                                      |                                   |   |          |
| 3                           |       | +Ciphering_on(TCV_ch)                                                                          |                                   |   |          |
| 4                           |       | LIDL_DatRqSetup                                                                                | SetupSnd(TCV_ch,<br>TCV_Setup_mt) |   |          |
| <b>Detailed Comments:</b>   |       | 1. To assign SDCCH4 channel.                                                                   |                                   |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                                     |                                 |   |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---|----------|
| <b>Test Step Name:</b>      |       | PreEnterCCstateU7_31(ta:TA)                                                                                                                                                                                                                                         |                                 |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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 transit 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                                                                                                                                                                                                                                               | CRef                            | V | Comments |
| 1                           |       | +PreEnterCCstateU9_31(ta)                                                                                                                                                                                                                                           |                                 |   |          |
| 2                           |       | L?DL_DatInAlert                                                                                                                                                                                                                                                     | AlertRcv(AlertingInd_02(TI_01)) |   |          |
| 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)                                                                                                                                                                                                                                         |                                 |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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 transit 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                                                                                                                                                                                                                                               | CRef                            | V | Comments |
| 1                           |       | +PreEnterCCstateU9_32(ta)                                                                                                                                                                                                                                           |                                 |   |          |
| 2                           |       | L?DL_DatInAlert                                                                                                                                                                                                                                                     | AlertRcv(AlertingInd_02(TI_01)) |   |          |
| 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)                                                                                                                                                                                                                        |                                 |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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 transit 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                                                                                                                                                                                                                                                | CRef                            | V | Comments |
| 1                           |       | +PreEnterCCstateU9_33(slot, tsc, ta)                                                                                                                                                                                                                                 |                                 |   |          |
| 2                           |       | L?DL_DatInAlert                                                                                                                                                                                                                                                      | AlertRcv(AlertingInd_02(TI_01)) |   |          |
| 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)                                                                                            |                                 |   |          |
| <b>Group:</b>                                                   |       | GSM_L3_MS_v4180/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                                                                                                  | CRef                            | V | Comments |
| 1                                                               |       | +PreEnterCCstateU9_31(ta)                                                                                              |                                 |   |          |
| 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)                                                                                                                                              |                                 |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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                                                                                                                                                                      | CRef                            | V | Comments |
| 1                           |       | +PreEnterCCstateU9_32(ta)                                                                                                                                                                  |                                 |   |          |
| 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>   |       | <ol style="list-style-type: none"> <li>1. To accept the call by operator.</li> <li>2. To verify whether the MS is in the expected initial state U8.</li> </ol>                             |                                 |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                      |                                 |   |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---|----------|
| <b>Test Step Name:</b>      |       | PreEnterCCstateU8_33(slot:SN; tsc:TSC; ta:TA)                                                                                                                                                                        |                                 |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Preambles/                                                                                                                                                                                           |                                 |   |          |
| <b>Objective:</b>           |       | To bring the MS into CC state U8 by procedure in table 26.8.1.3/3. 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.                                                              |                                 |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                | CRef                            | V | Comments |
| 1                           |       | +PreEnterCCstateU9_33(slot, tsc, ta)                                                                                                                                                                                 |                                 |   |          |
| 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.       |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. Immediate connection is not supported.</li> <li>2. Immediate connection is supported.</li> <li>3. To verify whether the MS is in the expected initial state U8.</li> </ol> |                                 |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                                       |                                |   |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---|----------|
| <b>Test Step Name:</b>      |       | PreEnterCCstateU9_31(ta:TA)                                                                                                                                                                                                                                           |                                |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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                                                                                                                                                                                                                                                 | CRef                           | V | Comments |
| 1                           |       | (TCV_Setup_mt.sig := Signal_01)                                                                                                                                                                                                                                       |                                |   |          |
| 2                           |       | +CCEstablishMT_SDCCH4(ta)                                                                                                                                                                                                                                             |                                |   | 1.       |
| 3                           |       | +Authentication(TCV_ch, TSPX_CKSNDDef, TSPX_RANDDef)                                                                                                                                                                                                                  |                                |   | 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.<br>2. To initiate authentication procedure.<br>3. To start ciphering on the traffic channel.                                                                                                                                            |                                |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                             |                                |   |          |
|-----------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---|----------|
| <b>Test Step Name:</b>      |       | PreEnterCCstateU9_32(ta:TA)                                                                                                                                 |                                |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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                                                                                                                                       | CRef                           | V | Comments |
| 1                           |       | +PreEnterCCstateU6_32(ta)                                                                                                                                   |                                |   |          |
| 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)                                                                                                                                                                                                                         |                                   |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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                                                                                                                                                                                                                                                 | CRef                              | V | Comments |
| 1                           |       | (TCV_Setup_mt.sig := Signal_01)                                                                                                                                                                                                                                       |                                   |   |          |
| 2                           |       | +CCEstablishMT_TCH(slot, tsc, ta)                                                                                                                                                                                                                                     |                                   |   | 1.       |
| 3                           |       | +Authentication(TCV_chTch, TSPX_CKSNDDef, TSPX_RANDDef)                                                                                                                                                                                                               |                                   |   | 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.<br>2. To initiate authentication procedure.<br>3. To start ciphering on the traffic channel.<br>4. To modify the channel mode.                                                                                               |                                   |   |          |

| <b>Test Step Dynamic Behaviour</b>                                                                                                                                                                                                                                                                                             |       |                                                |                                    |   |                                                                                                                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------|------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Step Name:</b> PreEnterCCstateU9_34(ta:TA)                                                                                                                                                                                                                                                                             |       |                                                |                                    |   |                                                                                                                                                                                                                                                                     |
| <b>Group:</b> GSM_L3_MS_v4180/Preambles/                                                                                                                                                                                                                                                                                       |       |                                                |                                    |   |                                                                                                                                                                                                                                                                     |
| <b>Objective:</b> To bring the MS into CC state U9 by procedure in table 26.8.1.3/4. This is used in CC testing.                                                                                                                                                                                                               |       |                                                |                                    |   |                                                                                                                                                                                                                                                                     |
| <b>Default:</b> OtherEvents                                                                                                                                                                                                                                                                                                    |       |                                                |                                    |   |                                                                                                                                                                                                                                                                     |
| <b>Comments:</b> The supported bearer capability is specified in the input parameter 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                          | CRef                               | V | Comments                                                                                                                                                                                                                                                            |
| 1                                                                                                                                                                                                                                                                                                                              |       | +CCEstablishMT_SDCCH4(ta)                      |                                    |   | 1.                                                                                                                                                                                                                                                                  |
| 2                                                                                                                                                                                                                                                                                                                              |       | +Ciphering_on(TCV_ch)                          |                                    |   |                                                                                                                                                                                                                                                                     |
| 3                                                                                                                                                                                                                                                                                                                              |       | LIDL_DatRqSetup                                | SetupSnd(TCV_ch,<br>TCV_Setup_mt)  |   | 2.                                                                                                                                                                                                                                                                  |
| 4                                                                                                                                                                                                                                                                                                                              |       | L?DL_DatInCallCo                               | CallCfm(CallConfirm_<br>01(TI_01)) |   |                                                                                                                                                                                                                                                                     |
| 5                                                                                                                                                                                                                                                                                                                              |       | +CCstatuschk_02(TCV_ch, C_U9, TI_02,<br>TI_01) |                                    |   | 3.                                                                                                                                                                                                                                                                  |
| <b>Detailed Comments:</b>                                                                                                                                                                                                                                                                                                      |       |                                                |                                    |   | <ol style="list-style-type: none"> <li>1. To assign SDCCH4 channel.</li> <li>2. SETUP message without SIGNAL IE.</li> <li>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.</li> </ol> |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                    |                                                         |     |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-----|----------|
| <b>Test Step Name:</b>      |       | PreEnterCCstateU10(setup:SETUP_MT_PDU; slot:SN; tsc:TSC; ta:TA)                                                                                                                                                                                                                                                                                                                                    |                                                         |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Preambles/                                                                                                                                                                                                                                                                                                                                                                         |                                                         |     |          |
| <b>Objective:</b>           |       | To establish a mobile terminating call for the supported bearer capability and put the MS under test in the CC state U10.                                                                                                                                                                                                                                                                          |                                                         |     |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                                                                                                                                                                                        |                                                         |     |          |
| <b>Comments:</b>            |       | 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                                                                                                                                                                                                                                                                                                                                                                              | CRef                                                    | V   | Comments |
| 1                           |       | +CCEstablishMT_SDCCH4(ta)                                                                                                                                                                                                                                                                                                                                                                          |                                                         |     |          |
| 2                           |       | L!DL_DatRqAuthRq                                                                                                                                                                                                                                                                                                                                                                                   | AuthReq(TCV_ch, AuthRequest(TSPX_CKSNDf, TSPX_RANDDef)) |     |          |
| 3                           |       | L?DL_DatInAuthRes (TCV_Sres := DL_DatInAuthRes.msg.sres)                                                                                                                                                                                                                                                                                                                                           | AuthRes(AuthResponse)                                   |     |          |
| 4                           |       | (TCV_Res := OC_ChkSRES(TCV_Sres, TSPX_Ki, TSPX_RANDDef))                                                                                                                                                                                                                                                                                                                                           |                                                         |     |          |
| 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                          |       | +CCAssignTCH(slot, tsc)                                                                                                                                                                                                                                                                                                                                                                            |                                                         |     |          |
| 12                          |       | L?DL_DatInConn                                                                                                                                                                                                                                                                                                                                                                                     | ConnRcv(Connect_01(TI_01))                              |     |          |
| 13                          |       | L!DL_DatRqConnAck                                                                                                                                                                                                                                                                                                                                                                                  | ConnAckSnd(TCV_chTch, ConnectAck_01(TI_02))             |     |          |
| 14                          |       | +CCstatuschk_02(TCV_chTch, C_U10, TI_02, TI_01)                                                                                                                                                                                                                                                                                                                                                    |                                                         |     |          |
| 15                          |       | L?DL_DatInAlert                                                                                                                                                                                                                                                                                                                                                                                    | AlertRcv(AlertingInd_02(TI_01))                         |     |          |
| 16                          |       | (TCV_Null := OO_HookOff())                                                                                                                                                                                                                                                                                                                                                                         |                                                         |     |          |
| 17                          |       | L?DL_DatInConn                                                                                                                                                                                                                                                                                                                                                                                     | ConnRcv(Connect_01(TI_01))                              |     |          |
| 18                          |       | L!DL_DatRqConnAck                                                                                                                                                                                                                                                                                                                                                                                  | ConnAckSnd(TCV_chTch, ConnectAck_01(TI_02))             |     |          |
| 19                          |       | +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_late(setup:SETUP_MT_PDU; slot:SN; tsc:TSC; ta:TA)                                                                                                                                                                                                                                                                                                                               |                                                         |     |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Preambles/                                                                                                                                                                                                                                                                                                                                                                         |                                                         |     |          |
| <b>Objective:</b>           |       | To establish a mobile terminating call for the supported bearer capability and put the MS under test in the CC state U10.                                                                                                                                                                                                                                                                          |                                                         |     |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                                                                                                                                                                                        |                                                         |     |          |
| <b>Comments:</b>            |       | 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                                                                                                                                                                                                                                                                                                                                                                              | CRef                                                    | V   | Comments |
| 1                           |       | +CCEstablishMT_SDCCH4(ta)                                                                                                                                                                                                                                                                                                                                                                          |                                                         |     |          |
| 2                           |       | L!DL_DatRqAuthRq                                                                                                                                                                                                                                                                                                                                                                                   | AuthReq(TCV_ch, AuthRequest(TSPX_CKSNDf, TSPX_RANDDef)) |     |          |
| 3                           |       | L?DL_DatInAuthRes (TCV_Sres := DL_DatInAuthRes.msg.sres)                                                                                                                                                                                                                                                                                                                                           | AuthRes(AuthResponse)                                   |     |          |
| 4                           |       | (TCV_Res := OC_ChkSRES(TCV_Sres, TSPX_Ki, TSPX_RANDDef))                                                                                                                                                                                                                                                                                                                                           |                                                         |     |          |
| 5                           |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                      |                                                         | (I) | 1.       |
| 6                           |       | +PostLinkRelEnd(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                            |                                                         |     |          |
| 7                           |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                          |                                                         |     |          |
| 8                           |       | +Ciphering_on(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                              |                                                         |     |          |
| 9                           |       | (TCV_Setup_mt.sig := Signal_01)                                                                                                                                                                                                                                                                                                                                                                    |                                                         |     |          |
| 10                          |       | L!DL_DatRqSetup ( TCV_TI.ti_f := '0'B, TCV_TI.ti_v := '000'B)                                                                                                                                                                                                                                                                                                                                      | SetupSnd(TCV_ch, setup)                                 |     |          |
| 11                          |       | L?DL_DatInCallCo (TCV_CallCfm := DL_DatInCallCo.msg)                                                                                                                                                                                                                                                                                                                                               | CallCfm(CallConfirm_01(TI_01))                          |     |          |
| 12                          |       | L?DL_DatInConn                                                                                                                                                                                                                                                                                                                                                                                     | ConnRcv(Connect_01(TI_01))                              |     |          |
| 13                          |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                         |                                                         |     |          |
| 14                          |       | L?DL_DatInAlert                                                                                                                                                                                                                                                                                                                                                                                    | AlertRcv(AlertingInd_02(TI_01))                         |     |          |
| 15                          |       | (TCV_Null := OO_HookOff())                                                                                                                                                                                                                                                                                                                                                                         |                                                         |     |          |
| 16                          |       | L?DL_DatInConn                                                                                                                                                                                                                                                                                                                                                                                     | ConnRcv(Connect_01(TI_01))                              |     |          |
| 17                          |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                         |                                                         |     |          |
|                             |       | <b>localtree</b>                                                                                                                                                                                                                                                                                                                                                                                   |                                                         |     |          |
| 18                          |       | +CCAssignTCH(slot, tsc)                                                                                                                                                                                                                                                                                                                                                                            |                                                         |     |          |
| 19                          |       | L!DL_DatRqConnAck                                                                                                                                                                                                                                                                                                                                                                                  | ConnAckSnd(TCV_ch Tch, ConnectAck_01(TI_02))            |     |          |
| 20                          |       | +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_r01(Ta:TA; sub:B_2; powerlevel1,powerlevel2:INTEGER)                                                                                                                                                                                                                                                                                                                                  |                                                                                                |   |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Preambles/                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                |   |                         |
| <b>Objective:</b>           |       | To establish a mobile terminating call for the supported bearer capability and put the MS in the CC state U10.                                                                                                                                                                                                                                                                                           |                                                                                                |   |                         |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                |   |                         |
| <b>Comments:</b>            |       | 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. The timing advance is parameter. For RR testing. |                                                                                                |   |                         |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                    | CRef                                                                                           | V | Comments                |
| 1                           |       | L!DL_UdatRqPg1Rq                                                                                                                                                                                                                                                                                                                                                                                         | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)                                                         |   |                         |
| 2                           |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq, msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                                                                                                                                                                                                                                                                            | ChReq(ChRequest_17)                                                                            |   |                         |
| 3                           |       | ACTIVATE(OtherEvents_02)                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                |   | To match ChReq retrans. |
| 4                           |       | L!DL_UdatRqImm                                                                                                                                                                                                                                                                                                                                                                                           | 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(TSPX_CKSNDf, TSPX_RANDDef))                                        |   |                         |
| 8                           |       | L?DL_DatInAuthRes (TCV_Sres := DL_DatInAuthRes.msg.sres)                                                                                                                                                                                                                                                                                                                                                 | AuthRes(AuthResponse)                                                                          |   |                         |
| 9                           |       | (TCV_Res := OC_ChkSRES(TCV_Sres, TSPX_Ki, TSPX_RANDDef))                                                                                                                                                                                                                                                                                                                                                 |                                                                                                |   |                         |
| 10                          |       | [NOT TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                | I | 1.                      |
| 11                          |       | [TCV_Res]                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                |   |                         |
| 12                          |       | +Ciphering_on(TCV_ch)                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                |   |                         |
| 13                          |       | +localtree                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                |   |                         |
| <b>localtree</b>            |       |                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                |   |                         |
| 14                          |       | (TCV_Setup_mt.sig := Signal_01)                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                |   |                         |
| 15                          |       | L!DL_DatRqSetup (TCV_TI.ti_f := '0'B, TCV_TI.ti_v := '000'B)                                                                                                                                                                                                                                                                                                                                             | SetupSnd(TCV_ch, TCV_Setup_mt)                                                                 |   |                         |
| 16                          |       | L?DL_DatInCallCo (TCV_CallCfm:=DL_DatInCallCo.msg)                                                                                                                                                                                                                                                                                                                                                       | CallCfm(CallConfirm_01(TI_01))                                                                 |   |                         |
| 17                          |       | L?DL_DatInConn                                                                                                                                                                                                                                                                                                                                                                                           | ConnRcv(Connect_01(TI_01))                                                                     |   |                         |
| 18                          |       | +localtree1                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                |   |                         |
| 19                          |       | L?DL_DatInAlert                                                                                                                                                                                                                                                                                                                                                                                          | AlertRcv(AlertingInd_02(TI_01))                                                                |   |                         |
| 20                          |       | (TCV_Null := OO_HookOff())                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                |   |                         |
| 21                          |       | L?DL_DatInConn                                                                                                                                                                                                                                                                                                                                                                                           | ConnRcv(Connect_01(TI_01))                                                                     |   |                         |
| 22                          |       | +localtree1                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                |   |                         |
| <b>localtree1</b>           |       |                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                |   |                         |
| 23                          |       | +AssCmdGen(TCV_cellid, C_Full, TSPX_TmSlitDef, TSPX_TscDef, TSPX_TCHHSubDef)                                                                                                                                                                                                                                                                                                                             |                                                                                                |   |                         |
| 24                          |       | +Adjust_gsmanddcs_powerlvl(powerlevel1, powerlevel2, TCV_AssCmd)                                                                                                                                                                                                                                                                                                                                         |                                                                                                |   |                         |
| 25                          |       | +AssCh_complete(TCV_ch, TCV_chTch, TCV_AssCmd)                                                                                                                                                                                                                                                                                                                                                           |                                                                                                |   |                         |
| 26                          |       | L!DL_DatRqConnAck                                                                                                                                                                                                                                                                                                                                                                                        | ConnAckSnd(TCV_chTch, ConnectAck_01(TI_02))                                                    |   |                         |
| 27                          |       | +CCstatuschk_02(TCV_chTch, C_U10, TI_02, TI_01)                                                                                                                                                                                                                                                                                                                                                          |                                                                                                |   |                         |

**Detailed Comments:** 1. Authentication fails, inconclusive.

**Test Step Dynamic Behaviour**

**Test Step Name:** PreEnterCCstateU10\_21(slot:SN; tsc:TSC; ta:TA)  
**Group:** GSM\_L3\_MS\_v4180/Preambles/  
**Objective:** To bring the MS into CC state U10 by procedure in table 26.8.1.2/1. This is used in CC testing.  
**Default:** OtherEvents  
**Comments:** TCV\_T10 contains the transaction identifier from the MS, and TCV\_T1 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                                 | CRef                                     | V | Comments |
|----|-------|-------------------------------------------------------|------------------------------------------|---|----------|
| 1  |       | +PreEnterCCstateU4_21(ta)                             |                                          |   | 1.       |
| 2  |       | +CCAssignTCH(slot, tsc)                               |                                          |   |          |
| 3  |       | L!DL_DatRqConn                                        | ConnSnd(TCV_chTch                        |   |          |
| 4  |       | L?DL_DatInConnAck                                     | Connect_02(TCV_T1)<br>ConnAckRcv(Connect |   |          |
| 5  |       | +CCstatuschk_02(TCV_chTch, C_U10,<br>TCV_T1, TCV_T10) | Ack_02(TCV_T10))                         |   |          |

**Detailed Comments:** 1. To assign the suitable traffic channel to the MS.

**Test Step Dynamic Behaviour**

**Test Step Name:** PreEnterCCstateU10\_22(slot:SN; tsc:TSC; ta:TA)  
**Group:** GSM\_L3\_MS\_v4180/Preambles/  
**Objective:** To bring the MS into CC state U10 by procedure in table 26.8.1.2/2. This is used in CC testing.  
**Default:** OtherEvents  
**Comments:** TCV\_T10 contains the transaction identifier from the MS, and TCV\_T1 contains the transaction identifier for test system to send CC message. The values of them are used in test body.

| Nr | Label | Behaviour Description                                 | CRef                                     | V | Comments |
|----|-------|-------------------------------------------------------|------------------------------------------|---|----------|
| 1  |       | +PreEnterCCstateU4_22(slot, tsc, ta)                  |                                          |   |          |
| 2  |       | L!DL_DatRqConn                                        | ConnSnd(TCV_chTch                        |   |          |
| 3  |       | L?DL_DatInConnAck                                     | Connect_02(TCV_T1)<br>ConnAckRcv(Connect |   |          |
| 4  |       | +CCstatuschk_02(TCV_chTch, C_U10,<br>TCV_T1, TCV_T10) | Ack_02(TCV_T10))                         |   |          |

**Detailed Comments:**



| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                  |                                                                    |   |          |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---|----------|
| <b>Test Step Name:</b>      |       | PreEnterCCstateU11_23(slot:SN; tsc:TSC; ta:TA)                                                                                                                                                                                                                                                                   |                                                                    |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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                                                                                                                                                                                                                                                                                            | CRef                                                               | V | Comments |
| 1                           |       | +PreEnterCCstateU4_23(slot, tsc, ta)                                                                                                                                                                                                                                                                             |                                                                    |   |          |
| 2                           |       | L!DL_DatRqConn                                                                                                                                                                                                                                                                                                   | ConnSnd(TCV_chTch                                                  |   |          |
| 3                           |       | L?DL_DatInConnAck                                                                                                                                                                                                                                                                                                | ,<br>Connect_02(TCV_TI))<br>ConnAckRcv(Connect<br>Ack_02(TCV_TI0)) |   |          |
| 4                           |       | (TCV_Null := OO_TermCall())                                                                                                                                                                                                                                                                                      |                                                                    |   |          |
| 5                           |       | L?DL_DatInDisc (TCV_Cau0 :=<br>DL_DatInDisc.msg.cau, TCV_Fn :=<br>DL_DatInDisc.fn)                                                                                                                                                                                                                               | DiscRcv(TCV_chTch,<br>DisconnR(TCV_TI0,<br>Cause_Def))             |   |          |
| 6                           |       | +CCstatuschk_02(TCV_chTch, C_U11,<br>TCV_TI, TCV_TI0)                                                                                                                                                                                                                                                            |                                                                    |   |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To assign SDCCH4 channel.</li> <li>2. Full rate channel needed, to setup a physical channel as full rate traffic channel.</li> <li>3. Half rate channel needed, to setup a physical channel as half rate traffic channel.</li> </ol>                                   |                                                                    |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                  |                                                                    |   |          |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---|----------|
| <b>Test Step Name:</b>      |       | PreEnterCCstateU11_23Timer(slot:SN; tsc:TSC; ta:TA)                                                                                                                                                                                                                                                              |                                                                    |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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                                                                                                                                                                                                                                                                                            | CRef                                                               | V | Comments |
| 1                           |       | +PreEnterCCstateU4_23(slot, tsc, ta)                                                                                                                                                                                                                                                                             |                                                                    |   |          |
| 2                           |       | L!DL_DatRqConn                                                                                                                                                                                                                                                                                                   | ConnSnd(TCV_chTch                                                  |   |          |
| 3                           |       | L?DL_DatInConnAck                                                                                                                                                                                                                                                                                                | ,<br>Connect_02(TCV_TI))<br>ConnAckRcv(Connect<br>Ack_02(TCV_TI0)) |   |          |
| 4                           |       | (TCV_Null := OO_TermCall())                                                                                                                                                                                                                                                                                      |                                                                    |   |          |
| 5                           |       | L?DL_DatInDisc (TCV_Cau0 :=<br>DL_DatInDisc.msg.cau, TCV_Fn :=<br>DL_DatInDisc.fn) START T_dly(45000)                                                                                                                                                                                                            | DiscRcv(TCV_chTch,<br>DisconnR(TCV_TI0,<br>Cause_Def))             |   |          |
| 6                           |       | +CCstatuschk_02(TCV_chTch, C_U11,<br>TCV_TI, TCV_TI0)                                                                                                                                                                                                                                                            |                                                                    |   |          |
| <b>Detailed Comments:</b>   |       | <ol style="list-style-type: none"> <li>1. To assign SDCCH4 channel.</li> <li>2. Full rate channel needed, to setup a physical channel as full rate traffic channel.</li> <li>3. Half rate channel needed, to setup a physical channel as half rate traffic channel.</li> </ol>                                   |                                                                    |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                       |                       |   |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---|----------|
| <b>Test Step Name:</b>      |       | PreEnterCCstateU11_24(slot:SN; tsc:TSC; ta:TA)                                                                                                                                        |                       |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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                                                                                                                                                                 | CRef                  | V | Comments |
| 1                           |       | +PreEnterCCstateU4_24(slot, tsc, ta)                                                                                                                                                  |                       |   |          |
| 2                           |       | L!DL_DatRqConn                                                                                                                                                                        | ConnSnd(TCV_chTch     |   |          |
| 3                           |       | L?DL_DatInConnAck                                                                                                                                                                     | , Connect_02(TCV_TI)) |   |          |
| 4                           |       | (TCV_Null := OO_TermCall())                                                                                                                                                           | ConnAckRcv(Connect    |   |          |
| 5                           |       | L?DL_DatInDisc                                                                                                                                                                        | Ack_02(TCV_TI0))      |   |          |
| 6                           |       | +CCstatuschk_02(TCV_chTch, C_U11,                                                                                                                                                     | DiscRcv(TCV_chTch,    |   |          |
|                             |       | TCV_TI, TCV_TI0)                                                                                                                                                                      | DisconnR(TCV_TI0,     |   | 1.       |
|                             |       |                                                                                                                                                                                       | Cause_Def))           |   |          |
| <b>Detailed Comments:</b>   |       | 1. Now in CC state U11 and cause = #30.                                                                                                                                               |                       |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                           |                    |   |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---|----------|
| <b>Test Step Name:</b>      |       | PreEnterCCstateU12_21(slot:SN; tsc:TSC; ta:TA)                                                                                                                                                                                                                                                                                                                            |                    |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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 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                                                                                                                                                                                                                                                                                                                                                     | CRef               | V | Comments |
| 1                           |       | +PreEnterCCstateU10_21(slot, tsc, ta)                                                                                                                                                                                                                                                                                                                                     |                    |   |          |
| 2                           |       | L!DL_DatRqDisc                                                                                                                                                                                                                                                                                                                                                            | DiscSnd(TCV_chTch, |   | 1.       |
| 3                           |       | +CCstatuschk_02(TCV_chTch, C_U12, TCV_TI,                                                                                                                                                                                                                                                                                                                                 | DisconnS(TCV_TI,   |   |          |
|                             |       | TCV_TI0)                                                                                                                                                                                                                                                                                                                                                                  | Cause_01,          |   |          |
|                             |       |                                                                                                                                                                                                                                                                                                                                                                           | ProgInd_03iei,     |   |          |
|                             |       |                                                                                                                                                                                                                                                                                                                                                                           | UuInfo_omit))      |   |          |
| <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>               |       | GSM_L3_MS_v4180/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                                                                                                                                                                                                                          | CRef               | V | Comments |
| 1                           |       | +PreEnterCCstateU10_22(slot, tsc, ta)                                                                                                                                                                                                          |                    |   |          |
| 2                           |       | L!DL_DatRqDisc                                                                                                                                                                                                                                 | DiscSnd(TCV_chTch, |   |          |
| 3                           |       | +CCstatuschk_02(TCV_chTch, C_U12, TCV_TI,                                                                                                                                                                                                      | DisconnS(TCV_TI,   |   |          |
|                             |       | TCV_TI0)                                                                                                                                                                                                                                       | Cause_01,          |   |          |
|                             |       |                                                                                                                                                                                                                                                | ProgInd_03iei,     |   |          |
|                             |       |                                                                                                                                                                                                                                                | UuInfo_omit))      |   | 1.       |
| <b>Detailed Comments:</b>   |       | 1. Now in CC state U12                                                                                                                                                                                                                         |                    |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                           |                                                                                        |    |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----|----------|
| <b>Test Step Name:</b>      |       | PreEnterCCstateU12_23(slot:SN; tsc:TSC; ta:TA)                                                                                                                                                                                                                                                                                                                            |                                                                                        |    |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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_TIO 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                                                                                                                                                                                                                                                                                                                                                     | CRef                                                                                   | V  | Comments |
| 1                           |       | +PreEnterCCstateU4_23(slot, tsc, ta)                                                                                                                                                                                                                                                                                                                                      |                                                                                        |    |          |
| 2                           |       | L!DL_DatRqConn                                                                                                                                                                                                                                                                                                                                                            | ConnSnd(TCV_chTch                                                                      |    |          |
| 3                           |       | L?DL_DatInConnAck                                                                                                                                                                                                                                                                                                                                                         | ,<br>Connect_02(TCV_TI))<br>ConnAckRcv(Connect<br>Ack_02(TCV_TIO))                     |    |          |
| 4                           |       | L!DL_DatRqDisc                                                                                                                                                                                                                                                                                                                                                            | DiscSnd(TCV_chTch,<br>DisconnS(TCV_TI,<br>Cause_01,<br>ProgInd_03iei,<br>UuInfo_omit)) | 1. |          |
| 5                           |       | +CCstatuschk_02(TCV_chTch, C_U12,<br>TCV_TI, TCV_TIO)                                                                                                                                                                                                                                                                                                                     |                                                                                        |    |          |
| <b>Detailed Comments:</b>   |       | 1. Progress indicator = #8.                                                                                                                                                                                                                                                                                                                                               |                                                                                        |    |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                  |                                                                                       |   |          |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---|----------|
| <b>Test Step Name:</b>      |       | PreEnterCCstateU19_21(slot:SN; tsc:TSC; ta:TA)                                                                                                                                                                                                                                                                   |                                                                                       |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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_TIO 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                                                                                                                                                                                                                                                                                            | CRef                                                                                  | V | Comments |
| 1                           |       | +PreEnterCCstateU10_21(slot, tsc, ta)                                                                                                                                                                                                                                                                            |                                                                                       |   |          |
| 2                           |       | L!DL_DatRqDisc                                                                                                                                                                                                                                                                                                   | DiscSnd(TCV_chTch,<br>DisconnS(TCV_TI,<br>Cause_01,<br>ProgInd_omit,<br>UuInfo_omit)) |   |          |
| 3                           |       | L?DL_DatInRel                                                                                                                                                                                                                                                                                                    | ReleaseRcv(Release<br>_10(TCV_TIO))                                                   |   |          |
| 4                           |       | +CCstatuschk_02(TCV_chTch, C_U19,<br>TCV_TI, TCV_TIO)                                                                                                                                                                                                                                                            |                                                                                       |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                                                                                  |                                                                                       |   |          |

| Test Step Dynamic Behaviour                                                                                                                                                                            |       |                                                    |                                                                  |   |          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------|------------------------------------------------------------------|---|----------|
| <b>Test Step Name:</b> PreEnterCCstateU19_24(slot:SN; tsc:TSC; ta:TA)                                                                                                                                  |       |                                                    |                                                                  |   |          |
| <b>Group:</b> GSM_L3_MS_v4180/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 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                              | CRef                                                             | V | Comments |
| 1                                                                                                                                                                                                      |       | +PreEnterCCstateU4_24(slot, tsc, ta)               |                                                                  |   |          |
| 2                                                                                                                                                                                                      |       | L!DL_DatRqConn                                     | ConnSnd(TCV_chTch                                                |   |          |
| 3                                                                                                                                                                                                      |       | L?DL_DatInConnAck                                  | , Connect_02(TCV_TI))<br>ConnAckRcv(Connect                      |   |          |
| 4                                                                                                                                                                                                      |       | LIDL_DatRqDisc                                     | Ack_02(TCV_TI0))<br>DiscSnd(TCV_chTch,                           |   |          |
| 5                                                                                                                                                                                                      |       | L?DL_DatInRel (TCV_Fn := DL_DatInRel.fn)           | DisconnS(TCV_TI,                                                 |   |          |
| 6                                                                                                                                                                                                      |       | +CCstatuschk_02(TCV_chTch, C_U19, TCV_TI, TCV_TI0) | Cause_01,<br>ProgInd_omit,<br>UuInfo_omit)<br>ReleaseRcv(Release |   |          |
|                                                                                                                                                                                                        |       |                                                    | _10(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> GSM_L3_MS_v4180/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 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                                                    | CRef                                                             | V | Comments |
| 1                                                                                                                                                                                                      |       | +PreEnterCCstateU4_24(slot, tsc, ta)                                     |                                                                  |   |          |
| 2                                                                                                                                                                                                      |       | L!DL_DatRqConn                                                           | ConnSnd(TCV_chTch                                                |   |          |
| 3                                                                                                                                                                                                      |       | L?DL_DatInConnAck                                                        | , Connect_02(TCV_TI))<br>ConnAckRcv(Connect                      |   |          |
| 4                                                                                                                                                                                                      |       | LIDL_DatRqDisc                                                           | Ack_02(TCV_TI0))<br>DiscSnd(TCV_chTch,                           |   |          |
| 5                                                                                                                                                                                                      |       | L?DL_DatInRel (TCV_Fn := DL_DatInRel.fn)                                 | DisconnS(TCV_TI,                                                 |   |          |
| 6                                                                                                                                                                                                      |       | START T_dly(45000)<br>+CCstatuschk_02(TCV_chTch, C_U19, TCV_TI, TCV_TI0) | Cause_01,<br>ProgInd_omit,<br>UuInfo_omit)<br>ReleaseRcv(Release |   |          |
|                                                                                                                                                                                                        |       |                                                                          | _10(TCV_TI0))                                                    |   |          |
| <b>Detailed Comments:</b>                                                                                                                                                                              |       |                                                                          |                                                                  |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                      |                                                                                                      |   |                         |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|---|-------------------------|
| <b>Test Step Name:</b>      |       | PreEstRRConn(slot:SN; tsc:TSC; ta:TA)                                                                                                                |                                                                                                      |   |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Preambles/                                                                                                                           |                                                                                                      |   |                         |
| <b>Objective:</b>           |       | To establish a RR connection on SDCCH subchannel defined by TSPX_SDCCH4SubDef in cell A                                                              |                                                                                                      |   |                         |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                          |                                                                                                      |   |                         |
| <b>Comments:</b>            |       | 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                                                                                                                                | CRef                                                                                                 | V | Comments                |
| 1                           |       | L!DL_UdatRqPg1Rq                                                                                                                                     | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_01)                                                               |   | To match ChReq retrans. |
| 2                           |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn)                                                                         | ChReq(ChRequest_17)                                                                                  |   |                         |
| 3                           |       | ACTIVATE(OtherEvents_02)                                                                                                                             |                                                                                                      |   |                         |
| 4                           |       | L!DL_UdatRqImm                                                                                                                                       | 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  |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                      |                                                                                                      |   |                         |

| Test Step Dynamic Behaviour |       |                                                                              |                                                                                                              |     |                         |
|-----------------------------|-------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-----|-------------------------|
| <b>Test Step Name:</b>      |       | PreEstRRC_MM(par_mi:MI; cksn:BITSTRING; ta:TA)                               |                                                                                                              |     |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Preambles/                                                   |                                                                                                              |     |                         |
| <b>Objective:</b>           |       | To establish a RR connection on C_SDCCH4_A_1                                 |                                                                                                              |     |                         |
| <b>Default:</b>             |       | OtherEvents                                                                  |                                                                                                              |     |                         |
| <b>Comments:</b>            |       | used var's:<br>TCV_Rr, TCV_Fn, TCV_Pgch, TCV_ia_ts, TCV_chdescr_arfcn        |                                                                                                              |     |                         |
| Nr                          | Label | Behaviour Description                                                        | CRef                                                                                                         | V   | Comments                |
| 1                           |       | L!DL_UdatRqPg1Rq                                                             | PgReq1(TCV_PgCh, TCV_Pgg, PgReqTp1_30(par_mi))                                                               |     | To match ChReq retrans. |
| 2                           |       | L?DL_RaInChRq (TCV_Rr := DL_RaInChRq.msg.ecau_rrf, TCV_Fn := DL_RaInChRq.fn) | ChReq(ChRequest_17)                                                                                          |     |                         |
| 3                           |       | ACTIVATE(OtherEvents_02)                                                     |                                                                                                              |     |                         |
| 4                           |       | L!DL_UdatRqImm                                                               | ImmAss(TCV_agch, ImmAsgn_01Def(TCV_Rr, TCV_Fn, TSPX_SDCCH4SubDef, TCV_slot, TCV_tsc, TCV_chdescr_arfcn, ta)) |     |                         |
| 5                           |       | L?DL_EstInPgRes                                                              | PagingRes(PagingRes_30(par_mi, cksn))                                                                        | (P) |                         |
| 6                           |       | ACTIVATE(OtherEvents)                                                        |                                                                                                              |     | Restore Normal default  |
| <b>Detailed Comments:</b>   |       |                                                                              |                                                                                                              |     |                         |

| Test Step Dynamic Behaviour |       |                                                                                                                                |                                             |   |                         |
|-----------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---|-------------------------|
| <b>Test Step Name:</b>      |       | PreModifySetup( slot:SN; tsc: TSC; ta:TA)                                                                                      |                                             |   |                         |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Preambles/                                                                                                     |                                             |   |                         |
| <b>Objective:</b>           |       | To setup dual mode call and initiate MO incall modification. This is used in CC test group 26.8.1.4.5.                         |                                             |   |                         |
| <b>Default:</b>             |       | OtherEvents                                                                                                                    |                                             |   |                         |
| Nr                          | Label | Behaviour Description                                                                                                          | CRef                                        | V | Comments                |
| 1                           |       | +InitCall(TCV_Service)                                                                                                         |                                             |   | 1.                      |
| 2                           |       | +CCEstablishMO_SDCCH4(ta)                                                                                                      |                                             |   |                         |
| 3                           |       | ACTIVATE(OtherEvents_02)                                                                                                       |                                             |   | To match ChReq retrans. |
| 4                           |       | L?DL_EstInCmsRq                                                                                                                |                                             |   |                         |
| 5                           |       | ACTIVATE(OtherEvents)                                                                                                          |                                             |   | Restore Normal default  |
| 6                           |       | +ltree_continue                                                                                                                |                                             |   |                         |
|                             |       | <b>ltree_continue</b>                                                                                                          |                                             |   |                         |
| 7                           |       | +Cipherring_on(TCV_ch)                                                                                                         |                                             |   |                         |
| 8                           |       | +RcvSetupOrEsetup(TCV_Setup_mo, TCV_Esetup, TCV_Ecall)                                                                         |                                             |   |                         |
| 9                           |       | +Authentication(TCV_ch, TSPX_CKSNDf, TSPX_RANDDf)                                                                              |                                             |   |                         |
| 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_TIO))          |   |                         |
| 15                          |       | +InCallModi1(TSPX_MO_DualModSvc)                                                                                               |                                             |   | 2.                      |
| 16                          |       | L?DL_DatInModify (TCV_Fn := DL_DatInModify.fn, TCV_Modify := DL_DatInModify.msg)                                               | ModifyRcv(ModifyInd_01(TCV_TIO, TCV_Bcap2)) |   | 3.                      |
| <b>Detailed Comments:</b>   |       | 1. To attempt a dual mode call.<br>2. MMI action to initiate in-call modification.<br>3. The expected MODIFY message received. |                                             |   |                         |

| Test Step Dynamic Behaviour |       |                                                                                                    |      |   |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | SpeechService                                                                                      |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Preambles/                                                                         |      |   |          |
| <b>Objective:</b>           |       | To select a speech service, if the MS supports Telephony the selected speech service is telephony. |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                        |      |   |          |
| Nr                          | Label | Behaviour Description                                                                              | CRef | V | Comments |
| 1                           |       | [TSPC_Serv_TS11]                                                                                   |      |   |          |
| 2                           |       | +BasicServiceMO(C_Telephony, TSPX_Telephony_Rate)                                                  |      |   |          |
| 3                           |       | [TSPC_Serv_TS61]                                                                                   |      |   |          |
| 4                           |       | +BasicServiceMO(C_AltSpchFax, C_Full)                                                              |      |   |          |
| 5                           |       | [TSPC_Serv_BS61]                                                                                   |      |   |          |
| 6                           |       | +BasicServiceMO(C_AltSpchData, C_Full)                                                             |      |   |          |
| 7                           |       | [TSPC_Serv_BS81]                                                                                   |      |   |          |
| 8                           |       | +BasicServiceMO(C_SpchData, C_Full)                                                                |      |   |          |
| 9                           |       | [C_Yes]                                                                                            |      | I | 1.       |
| <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:BITSTRING)                                    |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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                                                                                                                                                                                                                                                      |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                            | CRef | V | Comments |
| 1                           |       | (TCV_sacch:=<br>OC_SubchOfSacch4(TSPX_SDCCH4SubDef,<br>C_CellA))                                                                                                                                                                                                 |      |   |          |
| 2                           |       | +CombinedBCCH_A(par_bspwr, C_MaxPwrLvlG,<br>C_MaxPwrLvlD, C_arfcnA, C_arfcnAd, acttype, slot,<br>tsc, ta, babr, cch_con, bpm)                                                                                                                                    |      |   |          |
| 3                           |       | +SysInfoSending_fh(C_SCH_A, C_BCCH_A_1, t,<br>retr, neci, att, babr, cch_con, bpm, t3212,<br>C_ci_cellA, mcc, mnc, lac, CellOpt_01, cchdgs,<br>cchddcs, C_CellReselectHys12, C_MaxPwrLvlG,<br>C_MaxPwrLvlD, bcchflgsm, bcchfldcs, Re,<br>C_BCC, C_NCC, C_NCCP_2) |      |   |          |
| 4                           |       | (TCV_Ccd0A := TCV_Ccd0H, TCV_sysinfo5 :=<br>TCV_sysinfo5, TCV_sysinfo6 := TCV_sysinfo6)                                                                                                                                                                          |      |   |          |
| 5                           |       | +SysInfo_SacchSending(TCV_sacch,<br>TCV_sysinfo5, TCV_sysinfo6)                                                                                                                                                                                                  |      |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                                  |      |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                                            |      |   |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | 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, bcchfldcs, bcflaltdcs:NCD; Re:B_1)                                                            |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Preambles/                                                                                                                                                                                                                                                 |      |   |          |
| <b>Objective:</b>           |       | 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.             |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                                                                |      |   |          |
| <b>Comments:</b>            |       | MNC = '03'O, power level = 38 dBuV are different from defaults.                                                                                                                                                                                                            |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                      | CRef | V | Comments |
| 1                           |       | (TCV_sacch :=<br>OC_SubchOfSacch4(TSPX_SDCCH4SubDef,<br>C_CellA))                                                                                                                                                                                                          |      |   |          |
| 2                           |       | +CombinedBCCH_A(par_bspwr, C_MaxPwrLvlG,<br>C_MaxPwrLvlD, C_arfcnA, C_arfcnAd, acttype, slot,<br>tsc, ta, babr, cch_con, bpm)                                                                                                                                              |      |   |          |
| 3                           |       | +SysInfoSending_nfh(C_SCH_A, C_BCCH_A_1,<br>t, retr, neci, att, babr, cch_con, bpm, t3212,<br>C_ci_cellA, mcc, mnc, lac, CellOpt_01,<br>C_CellReselectHys12, C_MaxPwrLvlG,<br>C_MaxPwrLvlD, bcchflgsm, bcflaltgsm, bcchfldcs,<br>bcflaltdcs, Re, C_BCC, C_NCC_1, C_NCCP_2) |      |   | 1.       |
| 4                           |       | (TCV_Ccd0A := TCV_Ccd0H, TCV_sysinfo5 :=<br>TCV_sysinfo5, TCV_sysinfo6 := TCV_sysinfo6)                                                                                                                                                                                    |      |   |          |
| 5                           |       | +SysInfo_SacchSending(TCV_sacch,<br>TCV_sysinfo5, TCV_sysinfo6)                                                                                                                                                                                                            |      |   |          |
| 6                           |       | +WaitForInService                                                                                                                                                                                                                                                          |      |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                                            |      |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                                  |      |   |          |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | StartCellB(par_bspwr, arfcn1, arfcn2:INTEGER; acttype:BITSTRING; slot:SN; tsc:TSC; ta:TA; t, retr, neci, att:INTEGER; babr, cch_con, bpm:B_3; t3212, mcc, mnc, lac:OCTETSTRING; cchdgsm, cchddcs:CCHD; bcchflgsm, bcchfldcs:NCD; Re:BITSTRING; bcc:BCC; ncc:NCC) |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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 B.                                                                                                     |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                                                      |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                            | CRef | V | Comments |
| 1                           |       | (TCV_sacch_B := OC_SubchOfSacch4(TSPX_SDCCH4SubDef, C_CellB))                                                                                                                                                                                                    |      |   |          |
| 2                           |       | +ltree_chconf                                                                                                                                                                                                                                                    |      |   |          |
| 3                           |       | +SysInfoSending_fh(C_SCH_B, C_BCCH_B_1, t, retr, neci, att, babr, cch_con, bpm, t3212, C_ci_cellB, mcc, mnc, lac, CellOpt_01, cchdgsm, cchddcs, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchflgsm, bcchfldcs, Re, bcc, ncc, C_NCCP_2)                   |      |   |          |
| 4                           |       | (TCV_Ccd0B := TCV_Ccd0H, TCV_sysinfo5_B := TCV_sysinf5, TCV_sysinfo6_B := TCV_sysinf6)                                                                                                                                                                           |      |   |          |
| 5                           |       | [cch_con = C_cch_1Comb]                                                                                                                                                                                                                                          |      |   |          |
| 6                           |       | +SysInfo_SacchSending(TCV_sacch_B, TCV_sysinfo5_B, TCV_sysinfo6_B)                                                                                                                                                                                               |      |   |          |
| 7                           |       | [cch_con = C_cch_1nonComb]                                                                                                                                                                                                                                       |      |   |          |
| 8                           |       | [(cch_con <> C_cch_1nonComb) AND(cch_con <> C_cch_1Comb)]                                                                                                                                                                                                        |      | I |          |
|                             |       | <b>ltree_chconf</b>                                                                                                                                                                                                                                              |      |   |          |
| 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                          |       | [(cch_con <> C_cch_1nonComb) AND(cch_con <> C_cch_1Comb)]                                                                                                                                                                                                        |      | I |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                                  |      |   |          |



| <b>Test Step Dynamic Behaviour</b> |       |                                                                                                                                                                                                                                                                                        |      |   |          |
|------------------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>             |       | 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)                                                                                                     |      |   |          |
| <b>Group:</b>                      |       | GSM_L3_MS_v4180/Preambles/                                                                                                                                                                                                                                                             |      |   |          |
| <b>Objective:</b>                  |       | 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.                                                                                           |      |   |          |
| <b>Default:</b>                    |       | OtherEvents                                                                                                                                                                                                                                                                            |      |   |          |
| <b>Comments:</b>                   |       | The location area code is different from the cell A.                                                                                                                                                                                                                                   |      |   |          |
| Nr                                 | Label | Behaviour Description                                                                                                                                                                                                                                                                  | CRef | V | Comments |
| 1                                  |       | +CombinedBCCH_B(par_bspwr, C_MaxPwrLvlG, C_MaxPwrLvlD, C_arfcnB, C_arfcnBd, acttype, slot, tsc, ta, babr, cch_con, bpm)                                                                                                                                                                |      |   |          |
| 2                                  |       | +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.       |
| 3                                  |       | (TCV_Ccd0B := TCV_Ccd0H, TCV_sysinfo5_B := TCV_sysinf5, TCV_sysinfo6_B := TCV_sysinf6)                                                                                                                                                                                                 |      |   |          |
| 4                                  |       | +SysInfo_SacchSending(TCV_sacch_B, TCV_sysinfo5_B, TCV_sysinfo6_B)                                                                                                                                                                                                                     |      |   |          |
| <b>Detailed Comments:</b>          |       | 1. To send SYNCHRONIZATION INFORMATION message with default parameter for cell B.                                                                                                                                                                                                      |      |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                       |      |   |          |
|-----------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | 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) |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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 EGSM default parameters of cell B.                                                                                     |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                                           |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                 | CRef | V | Comments |
| 1                           |       | (TCV_sacch_B := OC_SubchOfSacch4(TSPX_SDCCH4SubDef, C_CellB))                                                                                                                                                                                         |      |   |          |
| 2                           |       | +ltree_chconf                                                                                                                                                                                                                                         |      |   |          |
| 3                           |       | +SysInfoSending_e(C_SCH_B, C_BCCH_B_1, t, retr, neci, att, babr, cch_con, bpm, t3212, C_ci_cellB, mcc, mnc, lac, CellOpt_01, cchdgs, C_CellReselectHys12, C_MaxPwrLvlG, bcchf1, bcchf2, Re, bcc, ncc, C_NCCP_2)                                       |      |   |          |
| 4                           |       | (TCV_Ccd0B := TCV_Ccd0H, TCV_sysinfo5_B := TCV_sysinfo5, TCV_sysinfo5bis_B := TCV_sysinfo5bis, 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                           |       | [(cch_con <> C_cch_1nonComb) AND(cch_con <> C_cch_1Comb)]                                                                                                                                                                                             |      | I |          |
|                             |       | <b>ltree_chconf</b>                                                                                                                                                                                                                                   |      |   |          |
| 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                          |       | [(cch_con <> C_cch_1nonComb) AND(cch_con <> C_cch_1Comb)]                                                                                                                                                                                             |      | I |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                       |      |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                     |      |   |          |
|-----------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | StartCellB_ho(par_bspwr, arfcn1, arfcn2:INTEGER; acttype:BITSTRING; slot:SN; tsc:TSC; ta:TA; t, retr, neci, att:INTEGER; babr, cch_con, bpm:B_3; t3212, mcc, mnc, lac:OCTETSTRING; cchdgsm, cchddcs:CCHD; bcchflgsm, bcchfldcs:NCD; Re:BITSTRING; bcc:BCC; ncc:NCC; td, fn:INTEGER) |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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 B.                                                                                                                        |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                                                                         |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                               | CRef | V | Comments |
| 1                           |       | (TCV_sacch_B := OC_SubchOfSacch4(TSPX_SDCCH4SubDef, C_CellB))                                                                                                                                                                                                                       |      |   |          |
| 2                           |       | +ltree_chconf                                                                                                                                                                                                                                                                       |      |   |          |
| 3                           |       | +SysInfoSending_fh(C_SCH_B, C_BCCH_B_1, t, retr, neci, att, babr, cch_con, bpm, t3212, C_ci_cellB, mcc, mnc, lac, CellOpt_01, cchdgsm, cchddcs, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchflgsm, bcchfldcs, Re, bcc, ncc, C_NCCP_2)                                      |      |   |          |
| 4                           |       | (TCV_Ccd0B := TCV_Ccd0H, TCV_sysinfo5_B := TCV_sysinf5, TCV_sysinfo6_B := TCV_sysinf6)                                                                                                                                                                                              |      |   |          |
| 5                           |       | [cch_con = C_cch_1Comb]                                                                                                                                                                                                                                                             |      |   |          |
| 6                           |       | +SysInfo_SacchSending(TCV_sacch_B, TCV_sysinfo5_B, TCV_sysinfo6_B)                                                                                                                                                                                                                  |      |   |          |
| 7                           |       | [cch_con = C_cch_1nonComb]                                                                                                                                                                                                                                                          |      |   |          |
| 8                           |       | [(cch_con <> C_cch_1nonComb) AND(cch_con <> C_cch_1Comb)]                                                                                                                                                                                                                           |      | I |          |
|                             |       | <b>ltree_chconf</b>                                                                                                                                                                                                                                                                 |      |   |          |
| 9                           |       | [cch_con = C_cch_1Comb]                                                                                                                                                                                                                                                             |      |   |          |
| 10                          |       | +CombinedBCCH_B_ho(par_bspwr, C_MaxPwrLvlG, C_MaxPwrLvlD, arfcn1, arfcn2, acttype, slot, tsc, ta, babr, cch_con, bpm, td, fn)                                                                                                                                                       |      |   |          |
| 11                          |       | [cch_con = C_cch_1nonComb]                                                                                                                                                                                                                                                          |      |   |          |
| 12                          |       | +NonCombinedBCCH_B_ho(par_bspwr, C_MaxPwrLvlG, C_MaxPwrLvlD, arfcn1, arfcn2, acttype, slot, tsc, ta, babr, cch_con, bpm, td, fn)                                                                                                                                                    |      |   |          |
| 13                          |       | [(cch_con <> C_cch_1nonComb) AND(cch_con <> C_cch_1Comb)]                                                                                                                                                                                                                           |      | I |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                                                     |      |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                                   |      |   |          |
|-----------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | 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)                                                                                  |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/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 C.                                                                                                      |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                                                       |      |   |          |
| <b>Comments:</b>            |       | IMSI attach/detach not allowed (ATT=0). Cell C belongs to PLMN1.                                                                                                                                                                                                  |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                             | CRef | V | Comments |
| 1                           |       | +CombinedBCCH_C(par_bspwr, C_MaxPwrLvlG, C_MaxPwrLvlD, C_arfcnC, C_arfcnCd, acttype, slot, tsc, ta, babr, cch_con, bpm)                                                                                                                                           |      |   |          |
| 2                           |       | +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.       |
| 3                           |       | (TCV_Ccd0C := TCV_Ccd0H, TCV_sysinfo5_C := TCV_sysinf5, TCV_sysinfo6_C := TCV_sysinf6)                                                                                                                                                                            |      |   |          |
| 4                           |       | +SysInfo_SacchSending(TCV_sacch_C, TCV_sysinfo5_C, TCV_sysinfo6_C)                                                                                                                                                                                                |      |   |          |
| <b>Detailed Comments:</b>   |       |                                                                                                                                                                                                                                                                   |      |   |          |

| Test Step Dynamic Behaviour                                                                                                                                                          |       |                                                                                                                                                                                                                                                                   |      |   |          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b> Start_2cells(acttype:BITSTRING; slot:SN; tsc:TSC; ta:TA; att:INTEGER; babr, cch_con, bpm:B_3; t3212, mcc, mnc, lacA, lacB:OCTETSTRING)                        |       |                                                                                                                                                                                                                                                                   |      |   |          |
| <b>Group:</b> GSM_L3_MS_v4180/Preambles/                                                                                                                                             |       |                                                                                                                                                                                                                                                                   |      |   |          |
| <b>Objective:</b> 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.<br>IMSI attach detach is allowed in both cells.<br>T3212 value is 1/10 in both cells.   |       |                                                                                                                                                                                                                                                                   |      |   |          |
| <b>Default:</b> OtherEvents                                                                                                                                                          |       |                                                                                                                                                                                                                                                                   |      |   |          |
| Nr                                                                                                                                                                                   | Label | Behaviour Description                                                                                                                                                                                                                                             | CRef | V | Comments |
| 1                                                                                                                                                                                    |       | (TCV_sacch:=<br>OC_SubchOfSacch4(TSPX_SDCCH4SubDef,<br>C_CellA))                                                                                                                                                                                                  |      |   |          |
| 2                                                                                                                                                                                    |       | +StartCellB(C_E_default, C_arfcnB, C_arfcnBd,<br>acttype, slot, tsc, ta, C_TxInt_5, C_Max_1,<br>C_NECl_0, att, babr, cch_con, bpm, t3212, mcc,<br>mnc, lacB, CellChDes_04, CellChDes_03,<br>BcchFreqLst_01, BcchFreqLst_48,<br>C_noReestablishment, C_BCC, C_NCC) |      |   |          |
| 3                                                                                                                                                                                    |       | +StartCellA(C_E_suitable, acttype, slot, tsc, ta,<br>C_TxInt_5, C_Max_1, C_NECl_0, att, babr,<br>cch_con, bpm, t3212, mcc, mnc, lacA,<br>CellChDes_02, CellChDes_03, BcchFreqLst_01,<br>BcchFreqLst_48, C_noReestablishment)                                      |      |   |          |
| <b>Detailed Comments:</b>                                                                                                                                                            |       |                                                                                                                                                                                                                                                                   |      |   |          |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |   |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | 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)                                                                                                                                                                                                                             |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Preambles/                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
| <b>Objective:</b>           |       | 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.                                                                                                                                                                                                                                                                         |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |   |          |
| <b>Comments:</b>            |       | The parameters for SYSTEM INFORMATION messages are defined in section 26.3.1 of GSM 11.10                                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                                                                                                       | CRef | V | 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                           |       | +cell7                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
| 8                           |       | [TSPC_PGSM OR TSPC_EGSM]                                                                                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| 9                           |       | +cell8                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |   |          |
| 10                          |       | [TSPC_DCS]                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |          |
|                             |       | <b>cell2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 11                          |       | +CombinedBCCH_B(63, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax, 7, 580, acttype, slot, tsc, ta, babr, cch_con, bpm)                                                                                                                                                                                                                                                                                                                                   |      |   |          |
| 12                          |       | +SysInfoSending_nfh(C_SCH_B, C_BCCH_B_1, C_TxInt_10, C_Max_2, C_NECl_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_noReestablishment, C_BCC, C_NCC_1, C_NCCP_2)                                                                                                                       |      |   |          |
| 13                          |       | (TCV_Ccd0B := TCV_Ccd0H, TCV_sysinfo5_B := TCV_sysinfo5, TCV_sysinfo6_B := TCV_sysinfo6)                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| 14                          |       | +SysInfo_SacchSending(TCV_sacch_B, TCV_sysinfo5_B, TCV_sysinfo6_B)                                                                                                                                                                                                                                                                                                                                                                          |      |   |          |
|                             |       | <b>cell3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                |      |   |          |
| 15                          |       | +CombinedBCCH_C(61, TSPX_MSTxpwrMax, TSPX_MSTxpwrMax, 39, 610, acttype, slot, tsc, ta, babr, cch_con, bpm)                                                                                                                                                                                                                                                                                                                                  |      |   |          |
| 16                          |       | +SysInfoSending_nfh(C_SCH_C, C_BCCH_C_1, C_TxInt_10, C_Max_2, C_NECl_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_noReestablishment, C_BCC, C_NCC_2, C_NCCP_2)                                                                                                                       |      |   |          |
| 17                          |       | (TCV_Ccd0C := TCV_Ccd0H, TCV_sysinfo5_C := TCV_sysinfo5, TCV_sysinfo6_C := TCV_sysinfo6)                                                                                                                                                                                                                                                                                                                                                    |      |   |          |
| 18                          |       | +SysInfo_SacchSending(TCV_sacch_C,                                                                                                                                                                                                                                                                                                                                                                                                          |      |   |          |

|    |                                                                                                                                                                                                                                                                                                                                               |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | TCV_sysinfo5_C, TCV_sysinfo6_C)                                                                                                                                                                                                                                                                                                               |
|    | <b>cell4</b>                                                                                                                                                                                                                                                                                                                                  |
| 19 | +CombinedBCCH_D(55, 65, 702, acttype, slot, tsc,<br>ta, babr, cch_con, bpm)                                                                                                                                                                                                                                                                   |
| 20 | +SysInfoSending_nfh(C_SCH_D, C_BCCH_D_1,<br>C_TxInt_10, C_Max_2, C_NECl_0, att, babr,<br>cch_con, bpm, t3212, C_ci_cellD, mcc4, mnc4, lac,<br>CellOpt_02, C_CellReselectHys4,<br>TSPX_MSTxpwrMax, TSPX_MSTxpwrMax,<br>BcchFreqLst_08, BcchFreqLst_08,<br>BcchFreqLst_16, BcchFreqLst_16,<br>C_noReestablishment, C_BCC, C_NCC_3,<br>C_NCCP_2) |
| 21 | (TCV_Ccd0D := TCV_Ccd0H, TCV_sysinfo5_D<br>:= TCV_sysinf5, TCV_sysinfo6_D :=<br>TCV_sysinf6)                                                                                                                                                                                                                                                  |
| 22 | +SysInfo_SacchSending(TCV_sacch_D,<br>TCV_sysinfo5_D, TCV_sysinfo6_D)                                                                                                                                                                                                                                                                         |
|    | <b>cell5</b>                                                                                                                                                                                                                                                                                                                                  |
| 23 | +CombinedBCCH_E(59, 66, 703, acttype, slot, tsc,<br>ta, babr, cch_con, bpm)                                                                                                                                                                                                                                                                   |
| 24 | +SysInfoSending_nfh(C_SCH_E, C_BCCH_E_1,<br>C_TxInt_10, C_Max_2, C_NECl_0, att, babr,<br>cch_con, bpm, t3212, C_ci_cellE, mcc5, mnc5, lac,<br>CellOpt_02, C_CellReselectHys4,<br>TSPX_MSTxpwrMax, TSPX_MSTxpwrMax,<br>BcchFreqLst_09, BcchFreqLst_09,<br>BcchFreqLst_17, BcchFreqLst_17,<br>C_noReestablishment, C_BCC, C_NCC_4,<br>C_NCCP_2) |
| 25 | (TCV_Ccd0E := TCV_Ccd0H, TCV_sysinfo5_E<br>:= TCV_sysinf5, TCV_sysinfo6_E :=<br>TCV_sysinf6)                                                                                                                                                                                                                                                  |
| 26 | +SysInfo_SacchSending(TCV_sacch_E,<br>TCV_sysinfo5_E, TCV_sysinfo6_E)                                                                                                                                                                                                                                                                         |
|    | <b>cell6</b>                                                                                                                                                                                                                                                                                                                                  |
| 27 | +CombinedBCCH_F(57, 85, 830, acttype, slot, tsc,<br>ta, babr, cch_con, bpm)                                                                                                                                                                                                                                                                   |
| 28 | +SysInfoSending_nfh(C_SCH_F, C_BCCH_F_1,<br>C_TxInt_10, C_Max_2, C_NECl_0, att, babr,<br>cch_con, bpm, t3212, C_ci_cellF, mcc6, mnc6, lac,<br>CellOpt_02, C_CellReselectHys4,<br>TSPX_MSTxpwrMax, TSPX_MSTxpwrMax,<br>BcchFreqLst_10, BcchFreqLst_10,<br>BcchFreqLst_18, BcchFreqLst_18,<br>C_noReestablishment, C_BCC, C_NCC_5,<br>C_NCCP_2) |
| 29 | (TCV_Ccd0F := TCV_Ccd0H, TCV_sysinfo5_F<br>:= TCV_sysinf5, TCV_sysinfo6_F := TCV_sysinf6)                                                                                                                                                                                                                                                     |
| 30 | +SysInfo_SacchSending(TCV_sacch_F,<br>TCV_sysinfo5_F, TCV_sysinfo6_F)                                                                                                                                                                                                                                                                         |
|    | <b>cell7</b>                                                                                                                                                                                                                                                                                                                                  |
| 31 | +CombinedBCCH_G_sp(55, 97, 985, 885, acttype,<br>slot, tsc, ta, babr, cch_con, bpm)                                                                                                                                                                                                                                                           |
| 32 | +SysInfoSending_nfh(C_SCH_G, C_BCCH_G_1,<br>C_TxInt_10, C_Max_2, C_NECl_0, att, babr,<br>cch_con, bpm, t3212, C_ci_cellG, mcc7, mnc7, lac,<br>CellOpt_02, C_CellReselectHys4,<br>TSPX_MSTxpwrMax, TSPX_MSTxpwrMax,<br>BcchFreqLst_11, BcchFreqLst_11,<br>BcchFreqLst_19, BcchFreqLst_19,<br>C_noReestablishment, C_BCC, C_NCC_6,<br>C_NCCP_2) |
| 33 | (TCV_Ccd0G := TCV_Ccd0H, TCV_sysinfo5_G<br>:= TCV_sysinf5, TCV_sysinfo6_G :=<br>TCV_sysinf6)                                                                                                                                                                                                                                                  |
| 34 | +SysInfo_SacchSending(TCV_sacch_G,<br>TCV_sysinfo5_G, TCV_sysinfo6_G)                                                                                                                                                                                                                                                                         |

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| <p>35</p> <p>36</p> <p>37</p> <p>38</p> | <p><b>cell8</b></p> <p>+CombinedBCCH_H(53, 124, 124, acttype, slot, tsc, ta, babr, cch_con, bpm)</p> <p>+SysInfoSending_nfh(C_SCH_H, C_BCCH_H_1, C_TxInt_10, C_Max_2, C_NECl_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, C_noReestabliShment, C_BCC, C_NCC_7, C_NCCP_2)</p> <p>(TCV_sysinfo5_H := TCV_sysinf5, TCV_sysinfo6_H := TCV_sysinf6)</p> <p>+SysInfo_SacchSending(TCV_sacch_H, TCV_sysinfo5_H, TCV_sysinfo6_H)</p> |  |  |  |
| <b>Detailed Comments:</b>               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                    |      |   |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | 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)                                                                                             |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Preambles/                                                                                                                                                                                                                                                                         |      |   |          |
| <b>Objective:</b>           |       | 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.                                                                                                                             |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                                                                                        |      |   |          |
| <b>Comments:</b>            |       | The parameters for SYSTEM INFORMATION messages are defined in section 26.6.3 of GSM 11.10                                                                                                                                                                                                          |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                              | CRef | V | Comments |
| 1                           |       | +cellN1                                                                                                                                                                                                                                                                                            |      |   |          |
| 2                           |       | +cellN2                                                                                                                                                                                                                                                                                            |      |   |          |
| 3                           |       | +cellN3                                                                                                                                                                                                                                                                                            |      |   |          |
| 4                           |       | +cellN4                                                                                                                                                                                                                                                                                            |      |   |          |
| 5                           |       | +cellN5                                                                                                                                                                                                                                                                                            |      |   |          |
| 6                           |       | +cellN6                                                                                                                                                                                                                                                                                            |      |   |          |
| 7                           |       | +cellN7                                                                                                                                                                                                                                                                                            |      |   |          |
| <b>cellN1</b>               |       |                                                                                                                                                                                                                                                                                                    |      |   |          |
| 8                           |       | +CombinedBCCH_B(28, C_MaxPwrLvlG, C_MaxPwrLvlD, 8, 530, acttype, slot, tsc, ta, babr, cch_con, bpm)                                                                                                                                                                                                |      |   |          |
| 9                           |       | +SysInfoSending_fh(C_SCH_B, C_BCCH_B_1, C_TxInt_5, C_Max_1, C_NECl_0, att, babr, cch_con, bpm, t3212, C_ci_cellB, mcc, mnc, lacB, CellOpt_01, CellChDes_05, CellChDes_05d, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm, bcchfl_dcs, C_noReestabliShment, C_BCC, C_NCC, C_NCCP_2)   |      |   |          |
| 10                          |       | (TCV_Ccd0B := TCV_Ccd0H)                                                                                                                                                                                                                                                                           |      |   |          |
| <b>cellN2</b>               |       |                                                                                                                                                                                                                                                                                                    |      |   |          |
| 11                          |       | +CombinedBCCH_C(33, C_MaxPwrLvlG, C_MaxPwrLvlD, 14, 602, acttype, slot, tsc, ta, babr, cch_con, bpm)                                                                                                                                                                                               |      |   |          |
| 12                          |       | +SysInfoSending_fh(C_SCH_C, C_BCCH_C_1, C_TxInt_5, C_Max_1, C_NECl_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_noReestabliShment, C_BCC_7, C_NCC, C_NCCP_2) |      |   |          |
| 13                          |       | (TCV_Ccd0C := TCV_Ccd0H)                                                                                                                                                                                                                                                                           |      |   |          |
| <b>cellN3</b>               |       |                                                                                                                                                                                                                                                                                                    |      |   |          |
| 14                          |       | +CombinedBCCH_D(38, 20, 665, acttype, slot, tsc, ta, babr, cch_con, bpm)                                                                                                                                                                                                                           |      |   |          |
| 15                          |       | +SysInfoSending_fh(C_SCH_D, C_BCCH_D_1, C_TxInt_5, C_Max_1, C_NECl_0, att, babr, cch_con, bpm, t3212, C_ci_cellD, mcc, mnc, lacD, CellOpt_01, CellChDes_07, CellChDes_07d, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm, bcchfl_dcs, C_noReestabliShment, C_BCC_1, C_NCC, C_NCCP_2) |      |   | ncc = 1  |
| 16                          |       | (TCV_Ccd0D := TCV_Ccd0H)                                                                                                                                                                                                                                                                           |      |   |          |
| <b>cellN4</b>               |       |                                                                                                                                                                                                                                                                                                    |      |   |          |
| 17                          |       | +CombinedBCCH_E(58, 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_NECl_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_noReestabliShment, C_BCC_3, C_NCC, C_NCCP_2) |      |   | ncc = 1  |



|                           |                                                                                                                                                                                                                                                                                                    |         |  |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--|
| 19                        | (TCV_Ccd0E := TCV_Ccd0H)                                                                                                                                                                                                                                                                           |         |  |
|                           | <b>cellN5</b>                                                                                                                                                                                                                                                                                      |         |  |
| 20                        | +CombinedBCCH_F(63, 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_MaxPwrLvIG, C_MaxPwrLvID, bcchfl_gsm, bcchfl_dcs, C_noReestabliShment, C_BCC, C_NCC, C_NCCP_2)   | ncc = 1 |  |
| 22                        | (TCV_Ccd0F := TCV_Ccd0H)                                                                                                                                                                                                                                                                           |         |  |
|                           | <b>cellN6</b>                                                                                                                                                                                                                                                                                      |         |  |
| 23                        | +CombinedBCCH_G(68, 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_MaxPwrLvIG, C_MaxPwrLvID, bcchfl_gsm, bcchfl_dcs, C_noReestabliShment, C_BCC_7, C_NCC, C_NCCP_2) |         |  |
| 25                        | (TCV_Ccd0G := TCV_Ccd0H)                                                                                                                                                                                                                                                                           |         |  |
|                           | <b>cellN7</b>                                                                                                                                                                                                                                                                                      |         |  |
| 26                        | +CombinedBCCH_H(73, 44, 810, acttype, slot, tsc, ta, babr, cch_con, bpm)                                                                                                                                                                                                                           |         |  |
| 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_MaxPwrLvIG, C_MaxPwrLvID, bcchfl_gsm, bcchfl_dcs, C_noReestabliShment, C_BCC_1, C_NCC, C_NCCP_2) |         |  |
| <b>Detailed Comments:</b> |                                                                                                                                                                                                                                                                                                    |         |  |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                    |      |   |          |
|-----------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | 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)                                                                                      |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Preambles/                                                                                                                                                                                                                                                                         |      |   |          |
| <b>Objective:</b>           |       | 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.                                                                                                                             |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                                                                                        |      |   |          |
| <b>Comments:</b>            |       | The parameters for SYSTEM INFORMATION messages are defined in section 26.10.2 of GSM 11.10                                                                                                                                                                                                         |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                              | CRef | V | Comments |
| 1                           |       | +cellN1                                                                                                                                                                                                                                                                                            |      |   |          |
| 2                           |       | +cellN2                                                                                                                                                                                                                                                                                            |      |   |          |
| 3                           |       | +cellN3                                                                                                                                                                                                                                                                                            |      |   |          |
| 4                           |       | +cellN4                                                                                                                                                                                                                                                                                            |      |   |          |
| 5                           |       | +cellN5                                                                                                                                                                                                                                                                                            |      |   |          |
| 6                           |       | +cellN6                                                                                                                                                                                                                                                                                            |      |   |          |
| 7                           |       | +cellN7                                                                                                                                                                                                                                                                                            |      |   |          |
|                             |       | <b>cellN1</b>                                                                                                                                                                                                                                                                                      |      |   |          |
| 8                           |       | [TSPC_EGSM]                                                                                                                                                                                                                                                                                        |      |   |          |
| 9                           |       | +CombinedBCCH_B(28, C_MaxPwrLvlG, C_MaxPwrLvlD, C_arfcnEgsm, C_arfcnEgsm, acttype, slot, tsc, ta, babr, cch_con, bpm)                                                                                                                                                                              |      |   |          |
| 10                          |       | +SysInfoSending_fh(C_SCH_B, C_BCCH_B_1, C_TxInt_5, C_Max_1, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellB, mcc, mnc, lacB, CellOpt_01, CellChDes_05, CellChDes_05d, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm, bcchfl_dcs, C_noReestablishment, C_BCC, C_NCC, C_NCCP_2)   |      |   |          |
| 11                          |       | (TCV_Ccd0B := TCV_Ccd0H)                                                                                                                                                                                                                                                                           |      |   |          |
|                             |       | <b>cellN2</b>                                                                                                                                                                                                                                                                                      |      |   |          |
| 12                          |       | [TSPC_EGSM]                                                                                                                                                                                                                                                                                        |      |   |          |
| 13                          |       | +CombinedBCCH_C(33, C_MaxPwrLvlG, C_MaxPwrLvlD, 1005, 1005, acttype, slot, tsc, ta, babr, cch_con, bpm)                                                                                                                                                                                            |      |   |          |
| 14                          |       | +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_noReestablishment, C_BCC_7, C_NCC, C_NCCP_2) |      |   |          |
| 15                          |       | (TCV_Ccd0C := TCV_Ccd0H)                                                                                                                                                                                                                                                                           |      |   |          |
|                             |       | <b>cellN3</b>                                                                                                                                                                                                                                                                                      |      |   |          |
| 16                          |       | [TSPC_EGSM]                                                                                                                                                                                                                                                                                        |      |   |          |
| 17                          |       | +CombinedBCCH_D(38, 0, 0, acttype, slot, tsc, ta, babr, cch_con, bpm)                                                                                                                                                                                                                              |      |   |          |
| 18                          |       | +SysInfoSending_fh(C_SCH_D, C_BCCH_D_1, C_TxInt_5, C_Max_1, C_NECI_0, att, babr, cch_con, bpm, t3212, C_ci_cellD, mcc, mnc, lacD, CellOpt_01, CellChDes_07, CellChDes_07d, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm, bcchfl_dcs, C_noReestablishment, C_BCC_1, C_NCC, C_NCCP_2) |      |   | ncc = 1  |
| 19                          |       | (TCV_Ccd0D := TCV_Ccd0H)                                                                                                                                                                                                                                                                           |      |   |          |
|                             |       | <b>cellN4</b>                                                                                                                                                                                                                                                                                      |      |   |          |
| 20                          |       | [TSPC_EGSM]                                                                                                                                                                                                                                                                                        |      |   |          |
| 21                          |       | +CombinedBCCH_E(58, 26, 26, acttype, slot, tsc, ta, babr, cch_con, bpm)                                                                                                                                                                                                                            |      |   |          |
| 22                          |       | +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,                                                                                                                                        |      |   | ncc = 1  |

|                           |                                                                                                                                                                                                                                                                                                                                       |         |  |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--|
| 23                        | <p>CellChDes_08d, C_CellReselectHys12,<br/>C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm,<br/>bcchfl_dcs, C_noReestabliShment, C_BCC_3,<br/>C_NCC, C_NCCP_2)<br/>(TCV_Ccd0E := TCV_Ccd0H)</p>                                                                                                                                                |         |  |
| 24                        | <p><b>cellN5</b><br/>[TSPC_EGSM]</p>                                                                                                                                                                                                                                                                                                  |         |  |
| 25                        | <p>+CombinedBCCH_F(63, 1020, 1020, acttype, slot,<br/>tsc, ta, babr, cch_con, bpm)</p>                                                                                                                                                                                                                                                |         |  |
| 26                        | <p>+SysInfoSending_fh(C_SCH_F, C_BCCH_F_1,<br/>C_TxInt_5, C_Max_1, C_NECI_0, att, babr,<br/>cch_con, bpm, t3212, C_ci_cellF, mcc, mnc,<br/>lacF, CellOpt_01, CellChDes_09,<br/>CellChDes_09d, C_CellReselectHys12,<br/>C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm,<br/>bcchfl_dcs, C_noReestabliShment, C_BCC,<br/>C_NCC, C_NCCP_2)</p>   | ncc = 1 |  |
| 27                        | <p>(TCV_Ccd0F := TCV_Ccd0H)</p>                                                                                                                                                                                                                                                                                                       |         |  |
| 28                        | <p><b>cellN6</b><br/>[TSPC_EGSM]</p>                                                                                                                                                                                                                                                                                                  |         |  |
| 29                        | <p>+CombinedBCCH_G(68, 38, 38, acttype, slot, tsc,<br/>ta, babr, cch_con, bpm)</p>                                                                                                                                                                                                                                                    |         |  |
| 30                        | <p>+SysInfoSending_fh(C_SCH_G, C_BCCH_G_1,<br/>C_TxInt_5, C_Max_1, C_NECI_0, att, babr,<br/>cch_con, bpm, t3212, C_ci_cellG, mcc, mnc,<br/>lacG, CellOpt_01, CellChDes_10,<br/>CellChDes_10d, C_CellReselectHys12,<br/>C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm,<br/>bcchfl_dcs, C_noReestabliShment, C_BCC_7,<br/>C_NCC, C_NCCP_2)</p> |         |  |
| 31                        | <p>(TCV_Ccd0G := TCV_Ccd0H)</p>                                                                                                                                                                                                                                                                                                       |         |  |
| 32                        | <p><b>cellN7</b><br/>[TSPC_EGSM]</p>                                                                                                                                                                                                                                                                                                  |         |  |
| 33                        | <p>+CombinedBCCH_H(73, 1003, 1003, acttype, slot,<br/>tsc, ta, babr, cch_con, bpm)</p>                                                                                                                                                                                                                                                |         |  |
| 34                        | <p>+SysInfoSending_fh(C_SCH_H, C_BCCH_H_1,<br/>C_TxInt_5, C_Max_1, C_NECI_0, att, babr,<br/>cch_con, bpm, t3212, C_ci_cellH, mcc, mnc,<br/>lacH, CellOpt_01, CellChDes_11,<br/>CellChDes_11d, C_CellReselectHys12,<br/>C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm,<br/>bcchfl_dcs, C_noReestabliShment, C_BCC_1,<br/>C_NCC, C_NCCP_2)</p> |         |  |
| <b>Detailed Comments:</b> |                                                                                                                                                                                                                                                                                                                                       |         |  |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                           |      |   |          |
|-----------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------|
| <b>Test Step Name:</b>      |       | 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, lacB, lacC, lacD, lacE, lacF, lacG, lacH:OCTETSTRING)                                                                                                    |      |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Preambles/                                                                                                                                                                                                                                                                                |      |   |          |
| <b>Objective:</b>           |       | 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.                                                                                                                                    |      |   |          |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                                                                                               |      |   |          |
| <b>Comments:</b>            |       | The parameters for SYSTEM INFORMATION messages are defined in section 26.6.3 of GSM 11.10                                                                                                                                                                                                                 |      |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                                                                     | CRef | V | Comments |
| 1                           |       | +cellIN1                                                                                                                                                                                                                                                                                                  |      |   |          |
| 2                           |       | +cellIN2                                                                                                                                                                                                                                                                                                  |      |   |          |
| 3                           |       | +cellIN3                                                                                                                                                                                                                                                                                                  |      |   |          |
| 4                           |       | +cellIN4                                                                                                                                                                                                                                                                                                  |      |   |          |
| 5                           |       | +cellIN5                                                                                                                                                                                                                                                                                                  |      |   |          |
| 6                           |       | +cellIN6                                                                                                                                                                                                                                                                                                  |      |   |          |
| 7                           |       | +cellIN7                                                                                                                                                                                                                                                                                                  |      |   |          |
|                             |       | <b>cellIN1</b>                                                                                                                                                                                                                                                                                            |      |   |          |
| 8                           |       | +CombinedBCCH_A(C_E_suitable, C_MaxPwrLvlG, C_MaxPwrLvlD, C_arfcn_2, C_arfcnAd_2, 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_NECl_0, att, babr, cch_con, bpm, t3212, C_ci_cellB, mcc, mnc, lacB, CellOpt_03, CellChDes_02, CellChDes_03, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, BcchFreqLst_35, BcchFreqLst_27, C_noReestabliShment, C_BCC_3, C_NCC, C_NCCP_2) |      |   |          |
| 10                          |       | (TCV_Ccd0A := TCV_Ccd0H)                                                                                                                                                                                                                                                                                  |      |   |          |
|                             |       | <b>cellIN2</b>                                                                                                                                                                                                                                                                                            |      |   |          |
| 11                          |       | +CombinedBCCH_C(33, C_MaxPwrLvlG, C_MaxPwrLvlD, 14, 602, acttype, slot, tsc, ta, babr, cch_con, bpm)                                                                                                                                                                                                      |      |   |          |
| 12                          |       | +SysInfoSending_fh(C_SCH_C, C_BCCH_C_1, C_TxInt_5, C_Max_1, C_NECl_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_noReestabliShment, C_BCC_7, C_NCC, C_NCCP_2)        |      |   |          |
| 13                          |       | (TCV_Ccd0C := TCV_Ccd0H)                                                                                                                                                                                                                                                                                  |      |   |          |
|                             |       | <b>cellIN3</b>                                                                                                                                                                                                                                                                                            |      |   |          |
| 14                          |       | +CombinedBCCH_D(38, 20, 665, acttype, slot, tsc, ta, babr, cch_con, bpm)                                                                                                                                                                                                                                  |      |   |          |
| 15                          |       | +SysInfoSending_fh(C_SCH_D, C_BCCH_D_1, C_TxInt_5, C_Max_1, C_NECl_0, att, babr, cch_con, bpm, t3212, C_ci_cellD, mcc, mnc, lacD, CellOpt_01, CellChDes_07, CellChDes_07d, C_CellReselectHys12, C_MaxPwrLvlG, C_MaxPwrLvlD, bcchfl_gsm, bcchfl_dcs, C_noReestabliShment, C_BCC_1, C_NCC, C_NCCP_2)        |      |   | ncc = 1  |
| 16                          |       | (TCV_Ccd0D := TCV_Ccd0H)                                                                                                                                                                                                                                                                                  |      |   |          |
|                             |       | <b>cellIN4</b>                                                                                                                                                                                                                                                                                            |      |   |          |
| 17                          |       | +CombinedBCCH_E(58, 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_NECl_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_noReestabliShment, C_BCC_3, C_NCC, C_NCCP_2)        |      |   | ncc = 1  |

|                           |                                                                                                                                                                                                                                                                                                    |         |  |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--|
| 19                        | (TCV_Ccd0E := TCV_Ccd0H)                                                                                                                                                                                                                                                                           |         |  |
|                           | <b>cellN5</b>                                                                                                                                                                                                                                                                                      |         |  |
| 20                        | +CombinedBCCH_F(63, 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_NECl_0, att, babr, cch_con, bpm, t3212, C_ci_cellF, mcc, mnc, lacF, CellOpt_01, CellChDes_09, CellChDes_09d, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, bcchfl_gsm, bcchfl_dcs, C_noReestabliShment, C_BCC, C_NCC, C_NCCP_2)   | ncc = 1 |  |
| 22                        | (TCV_Ccd0F := TCV_Ccd0H)                                                                                                                                                                                                                                                                           |         |  |
|                           | <b>cellN6</b>                                                                                                                                                                                                                                                                                      |         |  |
| 23                        | +CombinedBCCH_G(68, 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_NECl_0, att, babr, cch_con, bpm, t3212, C_ci_cellG, mcc, mnc, lacG, CellOpt_01, CellChDes_10, CellChDes_10d, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, bcchfl_gsm, bcchfl_dcs, C_noReestabliShment, C_BCC_7, C_NCC, C_NCCP_2) |         |  |
| 25                        | (TCV_Ccd0G := TCV_Ccd0H)                                                                                                                                                                                                                                                                           |         |  |
|                           | <b>cellN7</b>                                                                                                                                                                                                                                                                                      |         |  |
| 26                        | +CombinedBCCH_H(28, 8, 530, acttype, slot, tsc, ta, babr, cch_con, bpm)                                                                                                                                                                                                                            |         |  |
| 27                        | +SysInfoSending_fh(C_SCH_H, C_BCCH_H_1, C_TxInt_5, C_Max_1, C_NECl_0, att, babr, cch_con, bpm, t3212, C_ci_cellH, mcc, mnc, lacH, CellOpt_01, CellChDes_05, CellChDes_05d, C_CellReselectHys12, C_MaxPwrLvIG, C_MaxPwrLvID, bcchfl_gsm, bcchfl_dcs, C_noReestabliShment, C_BCC, C_NCC, C_NCCP_2)   |         |  |
| <b>Detailed Comments:</b> |                                                                                                                                                                                                                                                                                                    |         |  |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                                                                            |      |   |                                     |
|-----------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|-------------------------------------|
| <b>Test Step Name:</b>      |       | TS61MO(srv:SERVICES)                                                                                                                                                                                                                                       |      |   |                                     |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Preambles/                                                                                                                                                                                                                                 |      |   |                                     |
| <b>Objective:</b>           |       | To generate an MO SETUP message with appropriate Bcap for TS61 service.                                                                                                                                                                                    |      |   |                                     |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                                                                                |      |   |                                     |
| Nr                          | Label | Behaviour Description                                                                                                                                                                                                                                      | CRef | V | Comments                            |
| 1                           |       | (TCV_srv := srv, TCV_ur := TSPX_TS_61_ur1,<br>TCV_CE := NT_BothT_BothNTorT_BothT_BothNT)                                                                                                                                                                   |      |   |                                     |
| 2                           |       | +local_selectCe                                                                                                                                                                                                                                            |      |   |                                     |
| 3                           |       | +local_bcap                                                                                                                                                                                                                                                |      |   | get the right BC                    |
| 4                           |       | (TCV_Setup_mo :=<br>Setup_11_3100(C_RI_alternate,<br>Bcap_Speech_MO(C_Rchr_dontcare),<br>TCV_BcapMO1, Llcmp_NotApplicable,<br>Llcmp_AnyOrOmit, C_RI_alternate,<br>C_RI_alternate, Hlcmp_NotApplicable,<br>Hlcmp_TS61))                                     |      |   | generate SETUP                      |
| 5                           |       | +Chmod(TCV_ChRate, TCV_ce, TCV_ur,<br>srv)                                                                                                                                                                                                                 |      |   | initiate channel mode<br>variables  |
| 6                           |       | (TCV_Null :=<br>OO_IFsetup_TS6x_MO(TCV_srv, TCV_ur,<br>TCV_ce, TCV_ChRate))                                                                                                                                                                                |      |   | ask operator to configure<br>the MS |
|                             |       | <b>local_bcap</b>                                                                                                                                                                                                                                          |      |   |                                     |
| 7                           |       | [TCV_ce = C_transparent]                                                                                                                                                                                                                                   |      |   |                                     |
| 8                           |       | [TCV_ur = C_9600bs]                                                                                                                                                                                                                                        |      |   |                                     |
| 9                           |       | +local_TS61_FAX3_T(C_9600bs, C_ir_16kbs)                                                                                                                                                                                                                   |      |   |                                     |
| 10                          |       | [(TCV_ur = C_4800bs) OR (TCV_ur = C_2400bs)]                                                                                                                                                                                                               |      |   |                                     |
| 11                          |       | +local_TS61_FAX3_T(TCV_ur, C_ir_8kbs)                                                                                                                                                                                                                      |      |   |                                     |
| 12                          |       | [(TCV_ur <> C_4800bs) AND(TCV_ur <><br>C_2400bs) AND(TCV_ur <> C_9600bs)]                                                                                                                                                                                  |      | I | IXIT parameter error                |
| 13                          |       | [TCV_ce = C_notransparent]                                                                                                                                                                                                                                 |      |   |                                     |
| 14                          |       | +local_TS61_FAX3_NT(TCV_ur)                                                                                                                                                                                                                                |      |   |                                     |
|                             |       | <b>local_TS61_FAX3_T(ur:B_4; ir:B_2)</b>                                                                                                                                                                                                                   |      |   |                                     |
| 15                          |       | (TCV_BcapMO1 := Bcap_MO(TCV_Rchr, C_FAX3,<br>C_Unstructured, C_nirr_nomeaning,<br>C_no_rate_adaption, C_sacp_NA, C_Synchronous,<br>C_stopbit_NA, C_databit_NA, ur, ir, C_parity_NA,<br>C_transparent, C_modemt_none))                                      |      |   | 11.8.2.7.1                          |
|                             |       | <b>local_TS61_FAX3_NT(ur:B_4)</b>                                                                                                                                                                                                                          |      |   |                                     |
| 16                          |       | [ur=C_9600bs]                                                                                                                                                                                                                                              |      |   |                                     |
| 17                          |       | (TCV_BcapMO1 := BcapX_MO(TCV_Rchr,<br>C_FAX3, C_SDUintegrity, C_nirr_nomeaning,<br>C_no_rate_adaption, C_sacp_NA,<br>C_Synchronous, C_stopbit_NA, C_databit_NA, ur,<br>C_ir_16kbs, C_parity_NA,<br>TCV_CE.NTorBothTorBothNT, C_modemt_none,<br>C_X25_fct)) |      |   | 11.8.2.7.2                          |
| 18                          |       | [(ur=C_2400bs) OR (ur = C_4800bs)]                                                                                                                                                                                                                         |      |   |                                     |
| 19                          |       | (TCV_BcapMO1 := BcapX_MO(TCV_Rchr,<br>C_FAX3, C_SDUintegrity, C_nirr_dontcare,<br>C_no_rate_adaption, C_sacp_NA,<br>C_Synchronous, C_stopbit_NA, C_databit_NA, ur,<br>C_ir_16kbs, C_parity_NA,<br>TCV_CE.NTorBothTorBothNT, C_modemt_none,<br>C_X25_fct))  |      |   | 11.8.2.7.2                          |
| 20                          |       | [(ur <> C_2400bs) AND(ur <> C_4800bs) AND(ur <><br>C_9600bs)]                                                                                                                                                                                              |      | I | IXIT parameter error                |
|                             |       | <b>local_selectCe</b>                                                                                                                                                                                                                                      |      |   |                                     |
| 21                          |       | [TSPX_TS_61_T_NT]                                                                                                                                                                                                                                          |      |   |                                     |
| 22                          |       | (TCV_ce := C_notransparent)                                                                                                                                                                                                                                |      |   |                                     |
| 23                          |       | [NOT TSPX_TS_61_T_NT]                                                                                                                                                                                                                                      |      |   |                                     |
| 24                          |       | (TCV_ce := TSPX_TS_61_ce)                                                                                                                                                                                                                                  |      |   |                                     |
| <b>Detailed Comments:</b>   |       | The TS61 Bearer Capabilities and SETUP messages for MO is constructed according to section 11.8.2.7.1 and section 11.8.2.7.2 of GSM 11.10 and section B.1.10.2 and section B.2.10 of GSM 07.01.                                                            |      |   |                                     |

The algorithm for selecting parameters:

IF (TSPX\_BS\_61\_T\_NT)

TCV\_ce := C\_nottransparent

ELSE

TCV\_ce := TSPX\_BS\_61\_ce

use (TCV\_ce, TSPX\_BS\_61\_ur1, svc) for OO\_IFsetup\_TS6x\_MO

| Test Step Dynamic Behaviour              |       |                                                                                                                                                                                                                                                                    |      |   |                            |
|------------------------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|----------------------------|
| <b>Test Step Name:</b>                   |       | TS62MO(srv:SERVICES)                                                                                                                                                                                                                                               |      |   |                            |
| <b>Group:</b>                            |       | GSM_L3_MS_v4180/Preambles/                                                                                                                                                                                                                                         |      |   |                            |
| <b>Objective:</b>                        |       | To generate an MO SETUP message with appropriate Bcap for TS62 service.                                                                                                                                                                                            |      |   |                            |
| <b>Default:</b>                          |       | OtherEvents                                                                                                                                                                                                                                                        |      |   |                            |
| Nr                                       | Label | Behaviour Description                                                                                                                                                                                                                                              | CRef | V | Comments                   |
| 1                                        |       | (TCV_srv := srv, TCV_ur := TSPX_TS_62_ur1,<br>TCV_CE := NT_BothT_BothNTorT_BothT_BothNT)                                                                                                                                                                           |      |   | variables used in InitCall |
| 2                                        |       | +local_selectCe                                                                                                                                                                                                                                                    |      |   |                            |
| 3                                        |       | +local_bcap                                                                                                                                                                                                                                                        |      |   | get the right BC           |
| 4                                        |       | (TCV_Setup_mo :=<br>Setup_10_3100(TCV_BcapMO1,<br>Llcmp_AnyOrOmit, Hlcmp_TS62))                                                                                                                                                                                    |      |   |                            |
| 5                                        |       | +Chmod(TCV_ChRate, TCV_ce, TCV_ur,<br>srv)                                                                                                                                                                                                                         |      |   |                            |
| 6                                        |       | (TCV_Null :=<br>OO_IFsetup_TS6x_MO(TCV_srv, TCV_ur,<br>TCV_ce, TCV_ChRate))                                                                                                                                                                                        |      |   |                            |
| <b>local_bcap</b>                        |       |                                                                                                                                                                                                                                                                    |      |   |                            |
| 7                                        |       | [TCV_ce = C_transparent]                                                                                                                                                                                                                                           |      |   |                            |
| 8                                        |       | [TCV_ur = C_9600bs]                                                                                                                                                                                                                                                |      |   |                            |
| 9                                        |       | +local_TS62_FAX3_T(C_9600bs, C_ir_16kbs)                                                                                                                                                                                                                           |      |   |                            |
| 10                                       |       | [(TCV_ur = C_4800bs) OR (TCV_ur = C_2400bs)]                                                                                                                                                                                                                       |      |   |                            |
| 11                                       |       | +local_TS62_FAX3_T(TCV_ur, C_ir_8kbs)                                                                                                                                                                                                                              |      |   |                            |
| 12                                       |       | [(TCV_ur <> C_4800bs) AND(TCV_ur <><br>C_2400bs) AND(TCV_ur <> C_9600bs)]                                                                                                                                                                                          |      | I | IXIT parameter error       |
| 13                                       |       | [TCV_ce = C_notransparent]                                                                                                                                                                                                                                         |      |   |                            |
| 14                                       |       | +local_TS62_FAX3_NT(TCV_ur)                                                                                                                                                                                                                                        |      |   |                            |
| <b>local_TS62_FAX3_T(ur:B_4; ir:B_2)</b> |       |                                                                                                                                                                                                                                                                    |      |   |                            |
| 15                                       |       | (TCV_BcapMO1 := Bcap_MO(C_Rchr_dontcare,<br>C_FAX3, C_Unstructured, C_nirr_nomeaning,<br>C_no_rate_adaption, C_sacp_NA, C_Synchronous,<br>C_stopbit_NA, C_databit_NA, ur, ir, C_parity_NA,<br>C_transparent, C_modemt_none))                                       |      |   | 11.8.2.7.1                 |
| <b>local_TS62_FAX3_NT(ur:B_4)</b>        |       |                                                                                                                                                                                                                                                                    |      |   |                            |
| 16                                       |       | [ur = C_9600bs]                                                                                                                                                                                                                                                    |      |   |                            |
| 17                                       |       | (TCV_BcapMO1 := BcapX_MO(C_Rchr_dontcare,<br>C_FAX3, C_SDUintegrity, C_nirr_nomeaning,<br>C_no_rate_adaption, C_sacp_NA,<br>C_Synchronous, C_stopbit_NA, C_databit_NA, ur,<br>C_ir_16kbs, C_parity_NA,<br>TCV_CE.NTorBothTorBothNT, C_modemt_none,<br>C_X25_fict)) |      |   | 11.8.2.7.2                 |
| 18                                       |       | [(ur = C_2400bs) OR (ur = C_4800bs)]                                                                                                                                                                                                                               |      |   |                            |
| 19                                       |       | (TCV_BcapMO1 := BcapX_MO(C_Rchr_dontcare,<br>C_FAX3, C_SDUintegrity, C_nirr_nomeaning,<br>C_no_rate_adaption, C_sacp_NA,<br>C_Synchronous, C_stopbit_NA, C_databit_NA, ur,<br>C_ir_16kbs, C_parity_NA,<br>TCV_CE.NTorBothTorBothNT, C_modemt_none,<br>C_X25_fict)) |      |   | 11.8.2.7.2                 |
| 20                                       |       | [(ur <> C_2400bs) AND(ur <> C_4800bs) AND(ur <><br>C_9600bs)]                                                                                                                                                                                                      |      | I | IXIT parameter error       |
| <b>local_selectCe</b>                    |       |                                                                                                                                                                                                                                                                    |      |   |                            |
| 21                                       |       | [TSPX_TS_62_T_NT]                                                                                                                                                                                                                                                  |      |   |                            |
| 22                                       |       | (TCV_ce := C_notransparent)                                                                                                                                                                                                                                        |      |   |                            |
| 23                                       |       | [NOT TSPX_TS_62_T_NT]                                                                                                                                                                                                                                              |      |   |                            |
| 24                                       |       | (TCV_ce := TSPX_TS_62_ce)                                                                                                                                                                                                                                          |      |   |                            |
| <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.                                                                    |      |   |                            |
|                                          |       | The algorithm for selecting parameters:<br>IF (TSPX_BS_62_T_NT)                                                                                                                                                                                                    |      |   |                            |



```
TCV_ce := C_nottransparent
ELSE
TCV_ce := TSPX_BS_62_ce

use (TCV_ce, TSPX_BS_62_ur1, svc) for OO_IFsetup_TS6x_MO
```

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                 |      |   |                  |
|-----------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|------------------|
| <b>Test Step Name:</b>      |       | TS61MT(srv:SERVICES)                                                                                                                                                                            |      |   |                  |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Preambles/                                                                                                                                                                      |      |   |                  |
| <b>Objective:</b>           |       | To generate an MT SETUP message with appropriate Bcap for TS61 service.                                                                                                                         |      |   |                  |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                     |      |   |                  |
| Nr                          | Label | Behaviour Description                                                                                                                                                                           | CRef | V | Comments         |
| 1                           |       | +local_maintree                                                                                                                                                                                 |      |   |                  |
| 2                           |       | +local_IFsetup                                                                                                                                                                                  |      |   |                  |
|                             |       | <b>local_maintree</b>                                                                                                                                                                           |      |   |                  |
| 3                           |       | (TCV_srv := srv, TCV_2ndtest := C_Yes)                                                                                                                                                          |      |   |                  |
| 4                           |       | (TCV_BcapMT1 := Bcap_Speech_MT)                                                                                                                                                                 |      |   | 1st Bcap         |
| 5                           |       | +local_first_SETUP_msg                                                                                                                                                                          |      |   |                  |
| 6                           |       | +local_second_SETUP_msg                                                                                                                                                                         |      |   |                  |
|                             |       | <b>local_first_SETUP_msg</b>                                                                                                                                                                    |      |   |                  |
| 7                           |       | (TCV_ur := TSPX_TS_61_ur1)                                                                                                                                                                      |      |   |                  |
| 8                           |       | [TSPX_TS_61_T_NT OR (TSPX_TS_61_ce = C_nottransparent)]                                                                                                                                         |      |   |                  |
| 9                           |       | +local_bcap2(TCV_ur, C_nottransparent)                                                                                                                                                          |      |   |                  |
| 10                          |       | (TCV_Setup_mt := Setup_21(C_RI_alternate, TCV_BcapMT1, TCV_BcapMT2, TI_02))                                                                                                                     |      |   |                  |
| 11                          |       | +Chmod(TCV_ChRate, C_nottransparent, TCV_ur, srv)                                                                                                                                               |      |   | 2nd channel mode |
| 12                          |       | (TCV_ChMod.mode := C_ChMod_r)                                                                                                                                                                   |      |   | Speech mode      |
| 13                          |       | [NOT TSPX_TS_61_T_NT AND (TSPX_TS_61_ce = C_transparent)]                                                                                                                                       |      |   |                  |
| 14                          |       | +local_bcap2(TCV_ur, C_transparent)                                                                                                                                                             |      |   |                  |
| 15                          |       | (TCV_Setup_mt := Setup_21(C_RI_alternate, TCV_BcapMT1, TCV_BcapMT2, TI_02))                                                                                                                     |      |   |                  |
| 16                          |       | +Chmod(TCV_ChRate, C_transparent, TCV_ur, srv)                                                                                                                                                  |      |   | 2nd channel mode |
| 17                          |       | (TCV_ChMod.mode := C_ChMod_r)                                                                                                                                                                   |      |   | Speech mode      |
|                             |       | <b>local_second_SETUP_msg</b>                                                                                                                                                                   |      |   |                  |
| 18                          |       | +local_userrate                                                                                                                                                                                 |      |   |                  |
| 19                          |       | [TSPX_TS_61_T_NT]                                                                                                                                                                               |      |   |                  |
| 20                          |       | +local_bcap2(TCV_ur2, C_transparent)                                                                                                                                                            |      |   |                  |
| 21                          |       | (TCV_Setup_mt1 := Setup_21(C_RI_alternate, TCV_BcapMT1, TCV_BcapMT2, TI_02))                                                                                                                    |      |   | 2nd Bcap         |
| 22                          |       | [NOT TSPX_TS_61_T_NT]                                                                                                                                                                           |      |   |                  |
| 23                          |       | +local_bcap2(TCV_ur2, C_BothT)                                                                                                                                                                  |      |   |                  |
| 24                          |       | (TCV_Setup_mt1 := Setup_21(C_RI_alternate, TCV_BcapMT1, TCV_BcapMT2, TI_02))                                                                                                                    |      |   |                  |
|                             |       | <b>local_bcap2(ur:B_4; ce:B_2)</b>                                                                                                                                                              |      |   |                  |
| 25                          |       | [ce = C_transparent]                                                                                                                                                                            |      |   |                  |
| 26                          |       | [(ur = C_2400bs) OR (ur = C_4800bs)]                                                                                                                                                            |      |   |                  |
| 27                          |       | +local_TS61_FAX3_T(ur, C_ir_8kbs)                                                                                                                                                               |      |   |                  |
| 28                          |       | [ur = C_9600bs]                                                                                                                                                                                 |      |   |                  |
| 29                          |       | +local_TS61_FAX3_T(ur, C_ir_16kbs)                                                                                                                                                              |      |   |                  |
| 30                          |       | [(ur <> C_2400bs) AND(ur <> C_4800bs) AND(ur <> C_9600bs)]                                                                                                                                      |      | I |                  |
| 31                          |       | [ce = C_BothT]                                                                                                                                                                                  |      |   |                  |
| 32                          |       | +local_TS61_FAX3_NT(ur, C_BothT)                                                                                                                                                                |      |   |                  |
| 33                          |       | [ce = C_nottransparent]                                                                                                                                                                         |      |   |                  |
| 34                          |       | +local_TS61_FAX3_NT(ur, C_nottransparent)                                                                                                                                                       |      |   |                  |
| 35                          |       | [(ce <> C_transparent) AND(ce <> C_BothT) AND(ce<> C_nottransparent)]                                                                                                                           |      | I |                  |
|                             |       | <b>local_TS61_FAX3_T(ur:B_4; ir:B_2)</b>                                                                                                                                                        |      |   |                  |
| 36                          |       | (TCV_BcapMT2 := Bcap_MT(C_FAX3, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_sacp_NA, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, ir, C_parity_NA, C_transparent, C_modemt_none)) |      |   | 11.8.1.5.1       |

|                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                       |  |   |                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---|-----------------|
| 37                                                                                                                                                                                                                                                                     | <b>local_TS61_FAX3_NT(ur:B_4; ce1:B_2)</b><br>(TCV_BcapMT2 := Bcap_MT(C_FAX3,<br>C_SDUIegrity, C_nirr_nomeaning,<br>C_no_rate_adaption, C_sacp_NA, C_Synchronous,<br>C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs,<br>C_parity_NA, ce1, C_modemt_none)) |  |   | 11.8.1.5.2      |
| 38                                                                                                                                                                                                                                                                     | <b>local_userrate</b><br>[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)                                                                                                                                                                                                                           |  |   |                 |
|                                                                                                                                                                                                                                                                        | <b>local_IFsetup</b>                                                                                                                                                                                                                                  |  |   |                 |
| 42                                                                                                                                                                                                                                                                     | [TCV_supported]                                                                                                                                                                                                                                       |  |   |                 |
| 43                                                                                                                                                                                                                                                                     | (TCV_Null := OO_IFsetup_TS6x_MT(TCV_srv,<br>TCV_ur))                                                                                                                                                                                                  |  |   |                 |
| 44                                                                                                                                                                                                                                                                     | [NOT TCV_supported]                                                                                                                                                                                                                                   |  |   |                 |
| 45                                                                                                                                                                                                                                                                     | [TCV_SpecialCase]                                                                                                                                                                                                                                     |  |   |                 |
| 46                                                                                                                                                                                                                                                                     | START T_dly(C_T_Wait)                                                                                                                                                                                                                                 |  |   |                 |
| 47                                                                                                                                                                                                                                                                     | ?TIMEOUT T_dly                                                                                                                                                                                                                                        |  |   |                 |
| 48                                                                                                                                                                                                                                                                     | [NOT TCV_SpecialCase]                                                                                                                                                                                                                                 |  | I | Parameter error |
| <b>Detailed Comments:</b> The algorithm for derivation of TS61 Bearer Capabilities:                                                                                                                                                                                    |                                                                                                                                                                                                                                                       |  |   |                 |
| <p>The 1st facsimile group 3 Bearer Capability (used for an MT call):</p> ur= TSPX_TS_61_ur1<br>IF TSPX_TS_61_T_NT OR (TSPX_TS_61_ce = NT)<br>use coding 11.8.1.5.2 with (ur & ce=NT)<br>ELSE<br>use coding 11.8.1.5.1 with (ur & ce=T)                                |                                                                                                                                                                                                                                                       |  |   |                 |
| <p>The 2nd facsimile group 3 Bearer Capability (used for TC_11_1_1):</p> IF TSPX_TS_61_more_ur<br>ur=TSPX_TS_61_ur2<br>ELSE<br>ur=TSPX_TS_61_ur1<br>IF TSPX_TS_61_T_NT<br>use coding 11.8.1.5.1 with (ur & ce=T)<br>ELSE<br>use coding 11.8.1.5.2 with(ur & ce=both/T) |                                                                                                                                                                                                                                                       |  |   |                 |

| Test Step Dynamic Behaviour |       |                                                                                                                                                                                                 |      |   |            |
|-----------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|------------|
| <b>Test Step Name:</b>      |       | TS62MT(srv:SERVICES)                                                                                                                                                                            |      |   |            |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/Preambles/                                                                                                                                                                      |      |   |            |
| <b>Objective:</b>           |       | To generate an MT SETUP message with appropriate Bcap for TS62 service.                                                                                                                         |      |   |            |
| <b>Default:</b>             |       | OtherEvents                                                                                                                                                                                     |      |   |            |
| Nr                          | Label | Behaviour Description                                                                                                                                                                           | CRef | V | Comments   |
| 1                           |       | +local_maintree                                                                                                                                                                                 |      |   |            |
| 2                           |       | (TCV_Null := OO_IFsetup_TS6x_MT(TCV_srv, TCV_ur))                                                                                                                                               |      |   |            |
|                             |       | <b>local_maintree</b>                                                                                                                                                                           |      |   |            |
| 3                           |       | (TCV_srv := srv, TCV_2ndtest := C_Yes)                                                                                                                                                          |      |   |            |
| 4                           |       | +local_first_SETUP_msg                                                                                                                                                                          |      |   |            |
| 5                           |       | +local_second_SETUP_msg                                                                                                                                                                         |      |   |            |
|                             |       | <b>local_first_SETUP_msg</b>                                                                                                                                                                    |      |   |            |
| 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)                                                                                                                                                  |      |   |            |
|                             |       | <b>local_second_SETUP_msg</b>                                                                                                                                                                   |      |   |            |
| 15                          |       | +local_userrate                                                                                                                                                                                 |      |   |            |
| 16                          |       | [TSPX_TS_62_T_NT]                                                                                                                                                                               |      |   |            |
| 17                          |       | +local_bcap2(TCV_ur2, C_transparent)                                                                                                                                                            |      |   |            |
| 18                          |       | (TCV_Setup_mt1 := Setup_21(C_RI_alterate, TCV_BcapMT1, TCV_BcapMT2, TI_02))                                                                                                                     |      |   |            |
| 19                          |       | [NOT TSPX_TS_62_T_NT]                                                                                                                                                                           |      |   |            |
| 20                          |       | +local_bcap2(TCV_ur2, C_BothT)                                                                                                                                                                  |      |   |            |
| 21                          |       | (TCV_Setup_mt1 := Setup_21(C_RI_alterate, TCV_BcapMT1, TCV_BcapMT2, TI_02))                                                                                                                     |      |   |            |
|                             |       | <b>local_bcap2(ur:B_4; ce:B_2)</b>                                                                                                                                                              |      |   |            |
| 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                          |       | [(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]                                                                                                                                                                         |      |   |            |
| 31                          |       | +local_TS62_FAX3_NT(ur, C_nottransparent)                                                                                                                                                       |      |   |            |
| 32                          |       | [(ce <> C_transparent) AND(ce <> C_BothT) AND(ce<> C_nottransparent)]                                                                                                                           |      | I |            |
|                             |       | <b>local_TS62_FAX3_T(ur:B_4; ir:B_2)</b>                                                                                                                                                        |      |   |            |
| 33                          |       | (TCV_BcapMT2 := Bcap_MT(C_FAX3, C_Unstructured, C_nirr_nomeaning, C_no_rate_adaption, C_sacp_NA, C_Synchronous, C_stopbit_NA, C_databit_NA, ur, ir, C_parity_NA, C_transparent, C_modemt_none)) |      |   | 11.8.1.5.1 |
|                             |       | <b>local_TS62_FAX3_NT(ur:B_4; ce1:B_2)</b>                                                                                                                                                      |      |   |            |

|    |                                                                                                                                                                                                           |   |                 |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------------|
| 34 | (TCV_BcapMT2 := Bcap_MT(C_FAX3,<br>C_SDUintegrity, C_nirr_nomeaning,<br>C_no_rate_adaption, C_sacp_NA, C_Synchronous,<br>C_stopbit_NA, C_databit_NA, ur, C_ir_16kbs,<br>C_parity_NA, ce1, C_modemt_none)) |   | 11.8.1.5.2      |
|    | <b>local_userrate</b>                                                                                                                                                                                     |   |                 |
| 35 | [TSPX_TS_62_more_ur]                                                                                                                                                                                      |   |                 |
| 36 | (TCV_ur2 := TSPX_TS_62_ur2)                                                                                                                                                                               |   |                 |
| 37 | [NOT TSPX_TS_62_more_ur]                                                                                                                                                                                  |   |                 |
| 38 | (TCV_ur2 := TSPX_TS_62_ur1)                                                                                                                                                                               |   |                 |
|    | <b>local_IFsetup</b>                                                                                                                                                                                      |   |                 |
| 39 | [TCV_supported]                                                                                                                                                                                           |   |                 |
| 40 | (TCV_Null := OO_IFsetup_TS6x_MT(TCV_srv,<br>TCV_ur))                                                                                                                                                      |   |                 |
| 41 | [NOT TCV_supported]                                                                                                                                                                                       |   |                 |
| 42 | [TCV_SpecialCase]                                                                                                                                                                                         |   |                 |
| 43 | START T_dly(C_T_Wait)                                                                                                                                                                                     |   |                 |
| 44 | ?TIMEOUT T_dly                                                                                                                                                                                            |   |                 |
| 45 | [NOT TCV_SpecialCase]                                                                                                                                                                                     | I | Parameter error |

**Detailed Comments:**

The algorithm for derivation of TS62 Bearer Capabilities:

The 1st Bearer Capability (used for an MT call):

ur= TSPX\_TS\_62\_ur1

IF TSPX\_TS\_62\_T\_NT OR (TSPX\_TS\_62\_ce = NT)

use coding 11.8.1.5.2 with (ur & ce=NT)

ELSE

use coding 11.8.1.5.1 with (ur & ce=T)

The 2nd Bearer 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 & ce=T)

ELSE

use coding 11.8.1.5.2 with(ur & ce=both/T)

Defaults Library

| Default Dynamic Behaviour   |       |                                                                                                                                                                     |                                    |   |          |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|---|----------|
| <b>Default Name:</b>        |       | OtherEvents                                                                                                                                                         |                                    |   |          |
| <b>Group:</b>               |       | GSM_L3_MS_v4180/                                                                                                                                                    |                                    |   |          |
| <b>Objective:</b>           |       | To match unexpected events and sign final verdict for preambles.                                                                                                    |                                    |   |          |
| <b>Comments:</b>            |       | used in preambles.                                                                                                                                                  |                                    |   |          |
| Nr                          | Label | Behaviour Description                                                                                                                                               | CRef                               | V | Comments |
| 1                           |       | L?DL_Relln                                                                                                                                                          | DLRelInd_02                        |   | 4.       |
| 2                           |       | RETURN                                                                                                                                                              |                                    |   |          |
| 3                           |       | ?TIMEOUT T_guard                                                                                                                                                    |                                    |   | 1.       |
| 4                           |       | +ltree_SDCCH1_release                                                                                                                                               |                                    |   |          |
| 5                           |       | +ltree_SDCCH2_release                                                                                                                                               |                                    |   |          |
| 6                           |       | +ltree_TCH1_release                                                                                                                                                 |                                    |   |          |
| 7                           |       | +ltree_TCH2_release                                                                                                                                                 |                                    |   |          |
| 8                           |       | (TCV_Null := OO_TguardTimeOut())                                                                                                                                    |                                    |   |          |
| 9                           |       | CANCEL                                                                                                                                                              |                                    | I | 3.       |
| 10                          |       | L?OTHERWISE                                                                                                                                                         |                                    |   | 2.       |
| 11                          |       | +ltree_SDCCH1_release                                                                                                                                               |                                    |   |          |
| 12                          |       | +ltree_SDCCH2_release                                                                                                                                               |                                    |   |          |
| 13                          |       | +ltree_TCH1_release                                                                                                                                                 |                                    |   |          |
| 14                          |       | +ltree_TCH2_release                                                                                                                                                 |                                    |   |          |
| 15                          |       | L?DL_Relln                                                                                                                                                          | DLRelInd_01                        |   |          |
| 16                          |       | CANCEL                                                                                                                                                              |                                    | I | 3.       |
| 17                          |       | ?TIMEOUT T_guard                                                                                                                                                    |                                    |   | 1.       |
| 18                          |       | CANCEL                                                                                                                                                              |                                    | I | 3.       |
| <b>ltree_SDCCH1_release</b> |       |                                                                                                                                                                     |                                    |   |          |
| 19                          |       | [TCV_ch <> "dummy"]                                                                                                                                                 |                                    |   |          |
| 20                          |       | L!DL_DatRqChRel                                                                                                                                                     | ChRel(TCV_ch,<br>ChRelease_01)     |   |          |
| 21                          |       | [TCV_ch = "dummy"]                                                                                                                                                  |                                    |   |          |
| <b>ltree_SDCCH2_release</b> |       |                                                                                                                                                                     |                                    |   |          |
| 22                          |       | [TCV_ch1 <> "dummy"]                                                                                                                                                |                                    |   |          |
| 23                          |       | L!DL_DatRqChRel                                                                                                                                                     | ChRel(TCV_ch1,<br>ChRelease_01)    |   |          |
| 24                          |       | [TCV_ch1 = "dummy"]                                                                                                                                                 |                                    |   |          |
| <b>ltree_TCH1_release</b>   |       |                                                                                                                                                                     |                                    |   |          |
| 25                          |       | [TCV_chTch <> "dummy"]                                                                                                                                              |                                    |   |          |
| 26                          |       | L!DL_DatRqChRel                                                                                                                                                     | ChRel(TCV_chTch,<br>ChRelease_01)  |   |          |
| 27                          |       | [TCV_chTch = "dummy"]                                                                                                                                               |                                    |   |          |
| <b>ltree_TCH2_release</b>   |       |                                                                                                                                                                     |                                    |   |          |
| 28                          |       | [TCV_chTch1 <> "dummy"]                                                                                                                                             |                                    |   |          |
| 29                          |       | L!DL_DatRqChRel                                                                                                                                                     | ChRel(TCV_chTch1,<br>ChRelease_01) |   |          |
| 30                          |       | [TCV_chTch1 = "dummy"]                                                                                                                                              |                                    |   |          |
| <b>Detailed Comments:</b>   |       | 1. The guard timer times out, inconclusive.<br>2. Unexpected events, inconclusive.<br>3. Cancel of all running timers.<br>4. Local end termination request allowed. |                                    |   |          |

| Default Dynamic Behaviour |       |                                                    |                                    |   |          |
|---------------------------|-------|----------------------------------------------------|------------------------------------|---|----------|
| <b>Default Name:</b>      |       | OtherEventsFail                                    |                                    |   |          |
| <b>Group:</b>             |       | GSM_L3_MS_v4180/                                   |                                    |   |          |
| <b>Objective:</b>         |       | To match unexpected events and fail the test case. |                                    |   |          |
| Nr                        | Label | Behaviour Description                              | CRef                               | V | Comments |
| 1                         |       | L?DL_Relln                                         | DLRelInd_02                        |   |          |
| 2                         |       | RETURN                                             |                                    |   |          |
| 3                         |       | ?TIMEOUT T_guard                                   |                                    |   | 1.       |
| 4                         |       | +ltree_SDCCH1_release                              |                                    |   |          |
| 5                         |       | +ltree_SDCCH2_release                              |                                    |   |          |
| 6                         |       | +ltree_TCH1_release                                |                                    |   |          |
| 7                         |       | +ltree_TCH2_release                                |                                    |   |          |
| 8                         |       | (TCV_Null := OO_TguardTimeOut())                   |                                    |   |          |
| 9                         |       | CANCEL                                             |                                    | I | 3.       |
| 10                        |       | L?OTHERWISE                                        |                                    |   | 2.       |
| 11                        |       | +ltree_SDCCH1_release                              |                                    |   |          |
| 12                        |       | +ltree_SDCCH2_release                              |                                    |   |          |
| 13                        |       | +ltree_TCH1_release                                |                                    |   |          |
| 14                        |       | +ltree_TCH2_release                                |                                    |   |          |
| 15                        |       | L?DL_Relln                                         | DLRelInd_01                        |   |          |
| 16                        |       | CANCEL                                             |                                    | F | 3.       |
| 17                        |       | ?TIMEOUT T_guard                                   |                                    |   |          |
| 18                        |       | CANCEL                                             |                                    | F | 3.       |
|                           |       | <b>ltree_SDCCH1_release</b>                        |                                    |   |          |
| 19                        |       | [TCV_ch <> "dummy"]                                |                                    |   |          |
| 20                        |       | L!DL_DatRqChRel                                    | ChRel(TCV_ch,<br>ChRelease_01)     |   |          |
| 21                        |       | [TCV_ch = "dummy"]                                 |                                    |   |          |
|                           |       | <b>ltree_SDCCH2_release</b>                        |                                    |   |          |
| 22                        |       | [TCV_ch1 <> "dummy"]                               |                                    |   |          |
| 23                        |       | L!DL_DatRqChRel                                    | ChRel(TCV_ch1,<br>ChRelease_01)    |   |          |
| 24                        |       | [TCV_ch1 = "dummy"]                                |                                    |   |          |
|                           |       | <b>ltree_TCH1_release</b>                          |                                    |   |          |
| 25                        |       | [TCV_chTch <> "dummy"]                             |                                    |   |          |
| 26                        |       | L!DL_DatRqChRel                                    | ChRel(TCV_chTch,<br>ChRelease_01)  |   |          |
| 27                        |       | [TCV_chTch = "dummy"]                              |                                    |   |          |
|                           |       | <b>ltree_TCH2_release</b>                          |                                    |   |          |
| 28                        |       | [TCV_chTch1 <> "dummy"]                            |                                    |   |          |
| 29                        |       | L!DL_DatRqChRel                                    | ChRel(TCV_chTch1,<br>ChRelease_01) |   |          |
| 30                        |       | [TCV_chTch1 = "dummy"]                             |                                    |   |          |
| <b>Detailed Comments:</b> |       | 1. The guard timer times out, inconclusive.        |                                    |   |          |
|                           |       | 2. Unexpected events, fail.                        |                                    |   |          |
|                           |       | 3. Cancel of all running timers.                   |                                    |   |          |

| Default Dynamic Behaviour |       |                                                                                                                                                                                                                                                                                                                                                              |                                 |   |          |
|---------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---|----------|
| <b>Default Name:</b>      |       | OtherEventsFail_01                                                                                                                                                                                                                                                                                                                                           |                                 |   |          |
| <b>Group:</b>             |       | GSM_L3_MS_v4180/                                                                                                                                                                                                                                                                                                                                             |                                 |   |          |
| <b>Objective:</b>         |       | To match irrelevant CHANNEL REQUEST msg and MEASUREMENT REPORT msg and return or match other unexpected events and fail the test case.                                                                                                                                                                                                                       |                                 |   |          |
| Nr                        | Label | Behaviour Description                                                                                                                                                                                                                                                                                                                                        | CRef                            | V | Comments |
| 1                         |       | L?DL_Relln                                                                                                                                                                                                                                                                                                                                                   | DLRelInd_01                     |   | 6.       |
| 2                         |       | RETURN                                                                                                                                                                                                                                                                                                                                                       |                                 |   |          |
| 3                         |       | ?TIMEOUT T_guard                                                                                                                                                                                                                                                                                                                                             |                                 |   | 1.       |
| 4                         |       | +ltree_SDCCH1_release                                                                                                                                                                                                                                                                                                                                        |                                 |   |          |
| 5                         |       | +ltree_SDCCH2_release                                                                                                                                                                                                                                                                                                                                        |                                 |   |          |
| 6                         |       | +ltree_TCH1_release                                                                                                                                                                                                                                                                                                                                          |                                 |   |          |
| 7                         |       | +ltree_TCH2_release                                                                                                                                                                                                                                                                                                                                          |                                 |   |          |
| 8                         |       | (TCV_Null := OO_TguardTimeOut())                                                                                                                                                                                                                                                                                                                             |                                 |   |          |
| 9                         |       | CANCEL                                                                                                                                                                                                                                                                                                                                                       |                                 | I | 5.       |
| 10                        |       | L?DL_RacInChRq                                                                                                                                                                                                                                                                                                                                               | ChReq(ChRequest_02)             |   | 2.       |
| 11                        |       | RETURN                                                                                                                                                                                                                                                                                                                                                       |                                 |   |          |
| 12                        |       | L?DL_UdatInMsrRpt                                                                                                                                                                                                                                                                                                                                            | MsrRept(MsrReport_02)           |   | 3.       |
| 13                        |       | RETURN                                                                                                                                                                                                                                                                                                                                                       |                                 |   |          |
| 14                        |       | L?OTHERWISE                                                                                                                                                                                                                                                                                                                                                  |                                 |   | 4.       |
| 15                        |       | +ltree_SDCCH1_release                                                                                                                                                                                                                                                                                                                                        |                                 |   |          |
| 16                        |       | +ltree_SDCCH2_release                                                                                                                                                                                                                                                                                                                                        |                                 |   |          |
| 17                        |       | +ltree_TCH1_release                                                                                                                                                                                                                                                                                                                                          |                                 |   |          |
| 18                        |       | +ltree_TCH2_release                                                                                                                                                                                                                                                                                                                                          |                                 |   |          |
| 19                        |       | L?DL_Relln                                                                                                                                                                                                                                                                                                                                                   | DLRelInd_01                     |   |          |
| 20                        |       | CANCEL                                                                                                                                                                                                                                                                                                                                                       |                                 | F | 5.       |
| 21                        |       | ?TIMEOUT T_guard                                                                                                                                                                                                                                                                                                                                             |                                 |   |          |
| 22                        |       | CANCEL                                                                                                                                                                                                                                                                                                                                                       |                                 | F | 5.       |
|                           |       | <b>ltree_SDCCH1_release</b>                                                                                                                                                                                                                                                                                                                                  |                                 |   |          |
| 23                        |       | [TCV_ch <> "dummy"]                                                                                                                                                                                                                                                                                                                                          |                                 |   |          |
| 24                        |       | L!DL_DatRqChRel                                                                                                                                                                                                                                                                                                                                              | ChRel(TCV_ch, ChRelease_01)     |   |          |
| 25                        |       | [TCV_ch = "dummy"]                                                                                                                                                                                                                                                                                                                                           |                                 |   |          |
|                           |       | <b>ltree_SDCCH2_release</b>                                                                                                                                                                                                                                                                                                                                  |                                 |   |          |
| 26                        |       | [TCV_ch1 <> "dummy"]                                                                                                                                                                                                                                                                                                                                         |                                 |   |          |
| 27                        |       | L!DL_DatRqChRel                                                                                                                                                                                                                                                                                                                                              | ChRel(TCV_ch1, ChRelease_01)    |   |          |
| 28                        |       | [TCV_ch1 = "dummy"]                                                                                                                                                                                                                                                                                                                                          |                                 |   |          |
|                           |       | <b>ltree_TCH1_release</b>                                                                                                                                                                                                                                                                                                                                    |                                 |   |          |
| 29                        |       | [TCV_chTch <> "dummy"]                                                                                                                                                                                                                                                                                                                                       |                                 |   |          |
| 30                        |       | L!DL_DatRqChRel                                                                                                                                                                                                                                                                                                                                              | ChRel(TCV_chTch, ChRelease_01)  |   |          |
| 31                        |       | [TCV_chTch = "dummy"]                                                                                                                                                                                                                                                                                                                                        |                                 |   |          |
|                           |       | <b>ltree_TCH2_release</b>                                                                                                                                                                                                                                                                                                                                    |                                 |   |          |
| 32                        |       | [TCV_chTch1 <> "dummy"]                                                                                                                                                                                                                                                                                                                                      |                                 |   |          |
| 33                        |       | L!DL_DatRqChRel                                                                                                                                                                                                                                                                                                                                              | ChRel(TCV_chTch1, ChRelease_01) |   |          |
| 34                        |       | [TCV_chTch1 = "dummy"]                                                                                                                                                                                                                                                                                                                                       |                                 |   |          |
| <b>Detailed Comments:</b> |       | <ol style="list-style-type: none"> <li>1. The guard timer times out, inconclusive.</li> <li>2. To throw away any irrelevant channel request.</li> <li>3. To throw away any measurement report.</li> <li>4. Other unexpected events, fail.</li> <li>5. Cancel of all running timers.</li> <li>6. Cover also DLRelInd_02 for local end termination.</li> </ol> |                                 |   |          |



| Default Dynamic Behaviour |       |                                                                                                                                                                                                                                        |                                 |   |          |
|---------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---|----------|
| <b>Default Name:</b>      |       | OtherEventsFail_02                                                                                                                                                                                                                     |                                 |   |          |
| <b>Group:</b>             |       | GSM_L3_MS_v4180/                                                                                                                                                                                                                       |                                 |   |          |
| <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.                                           |                                 |   |          |
| Nr                        | Label | Behaviour Description                                                                                                                                                                                                                  | CRef                            | V | Comments |
| 1                         |       | L?DL_Relln                                                                                                                                                                                                                             | DLRelInd_02                     |   |          |
| 2                         |       | RETURN                                                                                                                                                                                                                                 |                                 |   |          |
| 3                         |       | L?DL_RaInChRq                                                                                                                                                                                                                          | ChReq(ChRequest_02)             |   | 1.       |
| 4                         |       | RETURN                                                                                                                                                                                                                                 |                                 |   |          |
| 5                         |       | ?TIMEOUT T_guard                                                                                                                                                                                                                       |                                 |   | 2.       |
| 6                         |       | +ltree_SDCCH1_release                                                                                                                                                                                                                  |                                 |   |          |
| 7                         |       | +ltree_SDCCH2_release                                                                                                                                                                                                                  |                                 |   |          |
| 8                         |       | +ltree_TCH1_release                                                                                                                                                                                                                    |                                 |   |          |
| 9                         |       | +ltree_TCH2_release                                                                                                                                                                                                                    |                                 |   |          |
| 10                        |       | (TCV_Null := OO_TguardTimeOut())                                                                                                                                                                                                       |                                 |   |          |
| 11                        |       | CANCEL                                                                                                                                                                                                                                 |                                 | I | 4.       |
| 12                        |       | L?OTHERWISE                                                                                                                                                                                                                            |                                 |   | 3.       |
| 13                        |       | +ltree_SDCCH1_release                                                                                                                                                                                                                  |                                 |   |          |
| 14                        |       | +ltree_SDCCH2_release                                                                                                                                                                                                                  |                                 |   |          |
| 15                        |       | +ltree_TCH1_release                                                                                                                                                                                                                    |                                 |   |          |
| 16                        |       | +ltree_TCH2_release                                                                                                                                                                                                                    |                                 |   |          |
| 17                        |       | L?DL_Relln                                                                                                                                                                                                                             | DLRelInd_01                     |   |          |
| 18                        |       | CANCEL                                                                                                                                                                                                                                 |                                 | F | 4.       |
| 19                        |       | ?TIMEOUT T_guard                                                                                                                                                                                                                       |                                 |   |          |
| 20                        |       | CANCEL                                                                                                                                                                                                                                 |                                 | F | 4.       |
|                           |       | <b>ltree_SDCCH1_release</b>                                                                                                                                                                                                            |                                 |   |          |
| 21                        |       | [TCV_ch <> "dummy"]                                                                                                                                                                                                                    |                                 |   |          |
| 22                        |       | L!DL_DatRqChRel                                                                                                                                                                                                                        | ChRel(TCV_ch, ChRelease_01)     |   |          |
| 23                        |       | [TCV_ch = "dummy"]                                                                                                                                                                                                                     |                                 |   |          |
|                           |       | <b>ltree_SDCCH2_release</b>                                                                                                                                                                                                            |                                 |   |          |
| 24                        |       | [TCV_ch1 <> "dummy"]                                                                                                                                                                                                                   |                                 |   |          |
| 25                        |       | L!DL_DatRqChRel                                                                                                                                                                                                                        | ChRel(TCV_ch1, ChRelease_01)    |   |          |
| 26                        |       | [TCV_ch1 = "dummy"]                                                                                                                                                                                                                    |                                 |   |          |
|                           |       | <b>ltree_TCH1_release</b>                                                                                                                                                                                                              |                                 |   |          |
| 27                        |       | [TCV_chTch <> "dummy"]                                                                                                                                                                                                                 |                                 |   |          |
| 28                        |       | L!DL_DatRqChRel                                                                                                                                                                                                                        | ChRel(TCV_chTch, ChRelease_01)  |   |          |
| 29                        |       | [TCV_chTch = "dummy"]                                                                                                                                                                                                                  |                                 |   |          |
|                           |       | <b>ltree_TCH2_release</b>                                                                                                                                                                                                              |                                 |   |          |
| 30                        |       | [TCV_chTch1 <> "dummy"]                                                                                                                                                                                                                |                                 |   |          |
| 31                        |       | L!DL_DatRqChRel                                                                                                                                                                                                                        | ChRel(TCV_chTch1, ChRelease_01) |   |          |
| 32                        |       | [TCV_chTch1 = "dummy"]                                                                                                                                                                                                                 |                                 |   |          |
| <b>Detailed Comments:</b> |       | <ol style="list-style-type: none"> <li>1. To throw away any irrelevant channel request.</li> <li>2. The guard timer times out, inconclusive.</li> <li>3. Unexpected events, fail.</li> <li>4. Cancel of all running timers.</li> </ol> |                                 |   |          |

| Default Dynamic Behaviour |       |                                                      |      |   |          |
|---------------------------|-------|------------------------------------------------------|------|---|----------|
| <b>Default Name:</b>      |       | OtherEvents_01                                       |      |   |          |
| <b>Group:</b>             |       | GSM_L3_MS_v4180/                                     |      |   |          |
| <b>Objective:</b>         |       | To match irrelevant messages and return              |      |   |          |
| Nr                        | Label | Behaviour Description                                | CRef | V | 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>             |       | GSM_L3_MS_v4180/                                                                                                                                                                                                                               |                                 |   |          |
| <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                                                                                                                                                                                                                          | CRef                            | V | Comments |
| 1                         |       | L?DL_Relln                                                                                                                                                                                                                                     | DLRelInd_02                     |   |          |
| 2                         |       | RETURN                                                                                                                                                                                                                                         |                                 |   |          |
| 3                         |       | L?DL_RacInChRq                                                                                                                                                                                                                                 | ChReq(ChRequest_02)             |   | 1.       |
| 4                         |       | RETURN                                                                                                                                                                                                                                         |                                 |   |          |
| 5                         |       | ?TIMEOUT T_guard                                                                                                                                                                                                                               |                                 |   | 2.       |
| 6                         |       | +ltree_SDCCH1_release                                                                                                                                                                                                                          |                                 |   |          |
| 7                         |       | +ltree_SDCCH2_release                                                                                                                                                                                                                          |                                 |   |          |
| 8                         |       | +ltree_TCH1_release                                                                                                                                                                                                                            |                                 |   |          |
| 9                         |       | +ltree_TCH2_release                                                                                                                                                                                                                            |                                 |   |          |
| 10                        |       | (TCV_Null := OO_TguardTimeOut())                                                                                                                                                                                                               |                                 |   |          |
| 11                        |       | CANCEL                                                                                                                                                                                                                                         |                                 | I | 4.       |
| 12                        |       | L?OTHERWISE                                                                                                                                                                                                                                    |                                 |   | 3.       |
| 13                        |       | +ltree_SDCCH1_release                                                                                                                                                                                                                          |                                 |   |          |
| 14                        |       | +ltree_SDCCH2_release                                                                                                                                                                                                                          |                                 |   |          |
| 15                        |       | +ltree_TCH1_release                                                                                                                                                                                                                            |                                 |   |          |
| 16                        |       | +ltree_TCH2_release                                                                                                                                                                                                                            |                                 |   |          |
| 17                        |       | L?DL_Relln                                                                                                                                                                                                                                     | DLRelInd_01                     |   |          |
| 18                        |       | CANCEL                                                                                                                                                                                                                                         |                                 | I | 4.       |
| 19                        |       | ?TIMEOUT T_guard                                                                                                                                                                                                                               |                                 |   | 2.       |
| 20                        |       | CANCEL                                                                                                                                                                                                                                         |                                 | I | 4.       |
|                           |       | <b>ltree_SDCCH1_release</b>                                                                                                                                                                                                                    |                                 |   |          |
| 21                        |       | [TCV_ch <> "dummy"]                                                                                                                                                                                                                            |                                 |   |          |
| 22                        |       | L!DL_DatRqChRel                                                                                                                                                                                                                                | ChRel(TCV_ch, ChRelease_01)     |   |          |
| 23                        |       | [TCV_ch = "dummy"]                                                                                                                                                                                                                             |                                 |   |          |
|                           |       | <b>ltree_SDCCH2_release</b>                                                                                                                                                                                                                    |                                 |   |          |
| 24                        |       | [TCV_ch1 <> "dummy"]                                                                                                                                                                                                                           |                                 |   |          |
| 25                        |       | L!DL_DatRqChRel                                                                                                                                                                                                                                | ChRel(TCV_ch1, ChRelease_01)    |   |          |
| 26                        |       | [TCV_ch1 = "dummy"]                                                                                                                                                                                                                            |                                 |   |          |
|                           |       | <b>ltree_TCH1_release</b>                                                                                                                                                                                                                      |                                 |   |          |
| 27                        |       | [TCV_chTch <> "dummy"]                                                                                                                                                                                                                         |                                 |   |          |
| 28                        |       | L!DL_DatRqChRel                                                                                                                                                                                                                                | ChRel(TCV_chTch, ChRelease_01)  |   |          |
| 29                        |       | [TCV_chTch = "dummy"]                                                                                                                                                                                                                          |                                 |   |          |
|                           |       | <b>ltree_TCH2_release</b>                                                                                                                                                                                                                      |                                 |   |          |
| 30                        |       | [TCV_chTch1 <> "dummy"]                                                                                                                                                                                                                        |                                 |   |          |
| 31                        |       | L!DL_DatRqChRel                                                                                                                                                                                                                                | ChRel(TCV_chTch1, ChRelease_01) |   |          |
| 32                        |       | [TCV_chTch1 = "dummy"]                                                                                                                                                                                                                         |                                 |   |          |
| <b>Detailed Comments:</b> |       | <ol style="list-style-type: none"> <li>1. To throw away any irrelevant channel request.</li> <li>2. The guard timer times out, inconclusive.</li> <li>3. Unexpected events, inconclusive.</li> <li>4. Cancel of all running timers.</li> </ol> |                                 |   |          |

| Default Dynamic Behaviour |       |                                                           |             |   |          |
|---------------------------|-------|-----------------------------------------------------------|-------------|---|----------|
| <b>Default Name:</b>      |       | RcvHdOvAcc                                                |             |   |          |
| <b>Group:</b>             |       | GSM_L3_MS_v4180/                                          |             |   |          |
| <b>Objective:</b>         |       | To match any HANDOVER ACCESS then return to calling tree. |             |   |          |
| Nr                        | Label | Behaviour Description                                     | CRef        | V | Comments |
| 1                         |       | L?DL_RacInHoacc                                           | HndOvAcc_01 |   |          |
| 2                         |       | RETURN                                                    |             |   |          |
| <b>Detailed Comments:</b> |       |                                                           |             |   |          |

## Annex B: Partial IXIT proforma

Notwithstanding the provisions of the copyright clause related to the text of this ETS, ETSI grants that users of this ETS may freely reproduce the PIXIT proforma in this annex so that it can be used for its intended purposes and may further publish the completed PIXIT.

### Introduction

This partial IXIT proforma contained in this ETS, after augmented by the Test Realizer, is proposed to be provided to the client for completion, when the related Abstract Test Suite is to be used against client's Implementation Under Test (IUT).

Text in *italics* is comments for guidance for the production of a IXIT, and is not to be included in the actual IXIT.

The completed IXIT will normally be used in conjunction with the completed ICS, as it adds precision to the information provided by the ICS.

## B.1 Identification Summary

*This table is completed by the test laboratory. The item "Contract References" is optional.*

**Table 1: Identification Summary**

|                            |  |
|----------------------------|--|
| IXIT Reference Number      |  |
| Test Laboratory Name       |  |
| Date of Issue              |  |
| Issued to (name of client) |  |
| Contract References        |  |

## B.2 Abstract Test Suite Summary

*In the following table the test laboratory provides the version number of the protocol specification and the version number of ATS which are used in the conformance testing.*

**Table 2: ATS Summary**

|                                   |                    |
|-----------------------------------|--------------------|
| Protocol Specification            | ETS 300 557        |
| Version of Protocol Specification |                    |
| TSS & TP Specification            | ETS 300 607-1      |
| Version of TSS & TP Specification |                    |
| ATS Specification                 | ETS 300 607-3      |
| Version of ATS Specification      |                    |
| Abstract Test Method              | Remote Test Method |

## B.3 Test Laboratory

### B.3.1 Test Laboratory Identification

*The test laboratory provides the following information.*

**Table 3: Test Laboratory Identification**

|                         |  |
|-------------------------|--|
| Name of Test Laboratory |  |
| Postal Address          |  |
| Office address          |  |
| Telephone Number        |  |
| FAX Number              |  |

---

Notwithstanding the provisions of the copyright clause related to the text of the present ETS (see the front page), ETS grants users of this ETS to freely reproduce the partial IXIT proforma in this clause so that it can be used for its intended purposes and may further publish the completed IXIT

**B.3.2 Accreditation status of the test service**

*The test laboratory provides the following information.*

**Table 4: Accreditation status of the test service**

|                         |  |
|-------------------------|--|
| Accreditation status    |  |
| Accreditation Reference |  |

**B.3.3 Manager of Test Laboratory**

*The test laboratory provides the information about the manager of test laboratory in the following table.*

**Table 5: Manager of Test Laboratory**

|                                    |  |
|------------------------------------|--|
| Name of Manager of Test Laboratory |  |
| Telephone Number                   |  |
| FAX Number                         |  |
| E-mail Address                     |  |

**B.3.4 Contact person of Test Laboratory**

*The test laboratory provides the information about the contact person of test laboratory in the following table.*

**Table 6: Contact person of Test Laboratory**

|                                    |  |
|------------------------------------|--|
| Name of Contact of Test Laboratory |  |
| Telephone Number                   |  |
| FAX Number                         |  |
| E-mail Address                     |  |

**B.3.5 Means of Testing**

*In the table below, the test laboratory provides a statement of conformance of the Means Of Testing (MOT) to the reference standardized ATS, and identifies all restrictions for the test execution required by the MOT beyond those stated in the reference standardized ATS.*

**Table 7: Means of Testing**

| Means of Testing |
|------------------|
|------------------|

**B.3.6 Instructions for Completion**

*In this table, the test laboratory provides any specific instructions necessary for completion and return of the proforma from the client.*



**Table 8: Instruction for Completion**

| Instructions for Completion |
|-----------------------------|
|                             |

**B.4 Client**

**B.4.1 Client Identification**

*The client provides the identification in the following table.*

**Table 9: Client Identification**

|                  |  |
|------------------|--|
| Name of Client   |  |
| Postal Address   |  |
| Office Address   |  |
| Telephone Number |  |
| FAX Number       |  |

**B.4.2 Client Test Manager**

*In this table the client provides information about the test manager.*

**Table 10: Client Test Manager**

|                             |  |
|-----------------------------|--|
| Name of Client Test Manager |  |
| Telephone Number            |  |
| FAX Number                  |  |
| E-mail Address              |  |

**B.4.3 Client Contact person**

*In this table the client provides information about the test contact person.*

**Table 11: Client Contact person**

|                               |  |
|-------------------------------|--|
| Name of Client contact person |  |
| Telephone Number              |  |
| FAX Number                    |  |
| E-mail Address                |  |

**B.4.4 Test Facilities Required**

*In the following table, the client records the particular facilities required for testing, if a range of facilities is provided by the test laboratory.*

**Table 12: Test Facilities Required**

| Test Facilities Required |
|--------------------------|
|--------------------------|

## **B.5 System Under Test**

### **B.5.1 SUT Information**

*The client provides information about the SUT in the table below.*

Table 13: SUT Information

|                                 |  |
|---------------------------------|--|
| System Name                     |  |
| System Version                  |  |
| SCS Reference                   |  |
| Machine Configuration           |  |
| Operating System Identification |  |
| IUT Identification              |  |
| ICS Reference for the IUT       |  |

### B.5.2 Limitations of the SUT

*In the table below, the client provides information explaining if any of the abstract tests cannot be executed.*

**Table 14: Limitation of the SUT**

| Limitations of the SUT |
|------------------------|
|------------------------|

**B.5.3 Environmental Conditions**

*In the table below the client provides information about any tighter environmental conditions for the correct operation of the SUT.*

**Table 15: Environmental Conditions**

| Environmental Conditions |
|--------------------------|
|                          |

**B.6 Ancillary Protocols**

*This clause is completed by the client in conjunction with the test laboratory.*

In the following tables, the client identifies relevant information concerning each ancillary protocol in the SUT other than the IUT itself. One table for one ancillary protocol

Based on the MOT the test laboratory should create question proforma for each ancillary protocol in the blank space following each table. The information required is dependent on the MOT and the SUT, and covers all the addressing, parameter values, timer values and facilities (relevant to ETSS) as defined by the ICS for the ancillary protocol.

### B.6.1 Ancillary Protocols 1

**Table 16: Ancillary Protocol 1**

|                           |         |
|---------------------------|---------|
| Protocol Name             | ETS 300 |
| Version number            |         |
| ICS Reference (optional)  |         |
| IXIT Reference (optional) |         |
| PCTR Reference (optional) |         |

### B.6.2 Ancillary Protocols 2

**Table 17: Ancillary Protocol 2**

|                           |         |
|---------------------------|---------|
| Protocol Name             | ETS 300 |
| Version number            |         |
| ICS Reference (optional)  |         |
| IXIT Reference (optional) |         |
| PCTR Reference (optional) |         |

## B.7 Protocol Layer Information for L3 of Mobile Station

*This clause is completed by the test laboratory.*

### B.7.1 Protocol Identification

**Table 18: Protocol Identification**

|                         |                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Specification Reference | ETS 300 557: "Digital cellular telecommunications system (phase 2); Mobile radio interface layer 3 specification (GSM 04.08)". |
| Version of Protocol     |                                                                                                                                |
| ICS Reference           |                                                                                                                                |

### B.7.2 Parameter Values

#### B.7.2.1 Parameters related to Physical Resources

##### B.7.2.1.1 Parameter TSPX\_AltNb

In the default test condition, there are two set of ARFCNs for neighbour cells BCCH/CCCH carriers available, one set is {10, 80, 90, 100, 110, 120} for GSM 900 or {520, 600, 700, 780, 810, 870} for DCS1 800, an alternative is {15, 85, 95, 105, 115, 122} for GSM 900 or {530, 610, 710, 790, 820, 880} for DCS1 800. The value of TRUE selects the alternative set.

Table 19: Parameter TSPX\_AltNb

|                                                                                   |            |
|-----------------------------------------------------------------------------------|------------|
| Parameter Name                                                                    | TSPX_AltNb |
| Parameter Type                                                                    | BOOLEAN    |
| Parameter Value                                                                   |            |
| References:<br>TSPX_AltNb is used in: all test cases except RR and MM test group. |            |

**B.7.2.1.2 Parameter TSPX\_BCCHcarrierA**

In the default test condition, BCCH/CCCH carrier for cell A could be one of the following ARFCNs 20, 40 and 60 for GSM 900 or one of the following ARFCNs 590, 690 and 830 for DCS1 800. The parameter TSPX\_BCCHcarrierA specifies which one is used in the test.

Table 20: Parameter TSPX\_BCCHcarrierA

|                                                                                          |                   |
|------------------------------------------------------------------------------------------|-------------------|
| Parameter Name                                                                           | TSPX_BCCHcarrierA |
| Parameter Type                                                                           | INTEGER           |
| Parameter Value                                                                          |                   |
| References:<br>TSPX_BCCHcarrierA is used in: all test cases except RR and MM test group. |                   |

**B.7.2.1.3 Parameter TSPX\_BCCHcarrierB**

In invalid/inopportune test, Idle mode test, and CC test group, an emulation of two cells, cell A and cell B, is needed. The parameter TSPX\_BCCHcarrierB specifies the ARFCN used for BCCH/CCCH carrier of cell B. the value of TSPX\_BCCHcarrierB can be selected from {10, 80, 90, 100, 110,120} for GSM 900 or {520, 600, 700, 780, 810, 870} for DCS1 800 when the TSPX\_AltNb = FALSE, or form {15, 85, 95, 105, 115, 122} for GSM 900 or {530, 610, 710, 790, 820, 880} for DCS! 800 when the TSPX\_AltNb = TRUE.

Table 21: Parameter TSPX\_BCCHcarrierB

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Parameter Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TSPX_BCCHcarrierB |
| Parameter Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | INTEGER           |
| Parameter Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |
| References:<br>TSPX_BCCHcarrierB is used in:<br>TC_26_3_4, TC_26_5_4_1, TC_26_5_5_2_3, TC_26_5_6_1_1, TC_26_5_6_1_2, TC_26_7_1,<br>TC_26_7_2_2, TC_26_7_4_1, TC_26_7_4_2_1, TC_26_7_4_2_2_1, TC_26_7_4_2_2_2,<br>TC_26_7_4_2_3, TC_26_7_4_2_4_1, TC_26_7_4_2_4_3, TC_26_7_4_2_4_5, TC_26_7_4_3_1,<br>TC_26_7_4_3_2, TC_26_7_4_3_3, TC_26_7_4_3_4, TC_26_7_4_4, TC_26_7_4_5_3,<br>TC_26_7_4_5_4_1, TC_26_7_4_5_4_2, TC_26_7_4_5_3, TC_26_7_4_6, TC_26_7_5_7_1,<br>TC_26_8_1_4_3_2, TC_26_8_2_1 |                   |

**B.7.2.1.4 Parameter TSPX\_BCCHcarrierA\_HO**

The parameter TSPX\_BCCHcarrierA\_HO specifies the ARFCN used for BCCH/CCCH carrier of cell A in handover test cases. If the mobile station under test is GSM mobile state, the value of the parameter shall be 20. If the MS under test is DCS mobile station the value shall be 747.



**Table 22: Parameter TSPX\_BCCHcarrierA\_HO**

|                                                                                                                                                                                                                                                                                                  |                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Parameter Name                                                                                                                                                                                                                                                                                   | TSPX_BCCHcarrierA_HO |
| Parameter Type                                                                                                                                                                                                                                                                                   | INTEGER              |
| Parameter Value                                                                                                                                                                                                                                                                                  |                      |
| References:<br>TSPX_BCCHcarrierA_HO is used in: TC_26_6_5_1_2, TC_26_6_5_1_4, TC_26_6_5_1_5, TC_26_6_5_1_6, TC_26_6_5_1_7, TC_26_6_5_1_8, TC_26_6_5_2_1, TC_26_6_5_2_2, TC_26_6_5_2_3, TC_26_6_5_2_4, TC_26_6_5_2_6, TC_26_6_5_2_7, TC_26_6_5_2_9, TC_26_6_5_2_10, TC_26_6_5_4_1, TC_26_6_5_4_3. |                      |

**B.7.2.1.5 Parameter TSPX\_BCCHcarrierB\_HO**

The parameter TSPX\_BCCHcarrierB\_HO specifies the ARFCN used for BCCH/CCCH carrier of cell B in handover test cases. If the mobile station under test is GSM mobile state, the value of the parameter shall be 40. If the MS under test is DCS mobile station the value shall be 764.

**Table 23: Parameter TSPX\_BCCHcarrierB\_HO**

|                                                                                                                                                                                                                                                                                                                                                              |                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Parameter Name                                                                                                                                                                                                                                                                                                                                               | TSPX_BCCHcarrierB_HO |
| Parameter Type                                                                                                                                                                                                                                                                                                                                               | INTEGER              |
| Parameter Value                                                                                                                                                                                                                                                                                                                                              |                      |
| References:<br>TSPX_BCCHcarrierB_HO is used in: TC_26_6_5_1_1, TC_26_6_5_1_3, TC_26_6_5_1_5, TC_26_6_5_1_7, TC_26_6_5_2_1, TC_26_6_5_2_2, TC_26_6_5_2_3, TC_26_6_5_2_4, TC_26_6_5_2_5, TC_26_6_5_2_6, TC_26_6_5_2_7, TC_26_6_5_2_8, TC_26_6_5_2_9, TC_26_6_5_2_10, TC_26_6_5_3_1, TC_26_6_5_3_2, TC_26_6_5_4_1, TC_26_6_5_4_2, TC_26_6_5_4_3, TC_26_6_5_4_4. |                      |

**B.7.2.1.6 Parameter TSPX\_TCHcarrierA**

If there is no special requirement indicated, the carrier for traffic channel or SDCCH channel of cell A could be one of the following ARFCNs 30, 50 and 70 for GSM900 or one of the following ARFCNs 650, 750 and 850 for DCS1 800. The parameter TSPX\_TCHcarrierA specifies which one is used in the cell A for the test.

**Table 24: Parameter TSPX\_TCHcarrierA**

|                                                                                         |                  |
|-----------------------------------------------------------------------------------------|------------------|
| Parameter Name                                                                          | TSPX_TCHcarrierA |
| Parameter Type                                                                          | INTEGER          |
| Parameter Value                                                                         |                  |
| References:<br>TSPX_TCHcarrierA is used in: all test cases except RR and MM test cases. |                  |

**B.7.2.1.7 Parameter TSPX\_TCHcarrierA\_ho**

The parameter TSPX\_TCHcarrierA\_ho specifies TCH and SDCCH channel frequency number of cell A for HO cases. Its value is arbitrarily selected from cell allocation of cell A but not the carrier for BCCH. For GSM testing the cell allocation is 10, 17, 20, 26, 34, 42, 45, 46, 52, 59, 66, 73, 74, 75, 76, 108, 114. For DCS testing the cell allocation is 734, 741, 747, 754, 759, 766, 767, 773, 775, 779, 782, 791, 798, 829, 832, 844.

**Table 25: Parameter TSPX\_TCHcarrierA\_ho**

|                                                                              |                     |
|------------------------------------------------------------------------------|---------------------|
| Parameter Name                                                               | TSPX_TCHcarrierA_ho |
| Parameter Type                                                               | INTEGER             |
| Parameter Value                                                              |                     |
| References:<br>TSPX_TCHcarrierA_ho is used in: TC_26_6_5_1_7, TC_26_6_5_4_4. |                     |

**B.7.2.1.8 Parameter TSPX\_TCHcarrierB**

The parameter TSPX\_TCHcarrierB specifies the ARFCN used for the carrier of traffic channel or SDCCH channel of cell B.

**Table 26: Parameter TSPX\_TCHcarrierB**

|                                                                                                                                                                              |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Parameter Name                                                                                                                                                               | TSPX_TCHcarrierB |
| Parameter Type                                                                                                                                                               | INTEGER          |
| Parameter Value                                                                                                                                                              |                  |
| References:<br>TSPX_TCHcarrierB is used in:<br>TC_26_6_3_4, TC_26_6_5_4_4, TC_26_6_5_5_1, TC_26_6_5_5_2, TC_26_6_5_6, TC_26_6_5_7,<br>TC_26_6_5_8, TC_26_6_5_9, TC_26_8_2_1. |                  |

**B.7.2.1.9 Parameter TSPX\_TCHcarrierB\_ho**

The parameter TSPX\_TCHcarrierB\_ho specifies the ARFCN used for the carrier of traffic channel or SDCCH channel of cell B for handover test cases. Its value is arbitrarily selected from the cell allocation of cell B but not the carrier for BCCH. For GSM testing the cell allocation is 14, 18, 22, 24, 30, 31, 38, 40, 60, 66, 73, 74, 75, 76, 108, 114. For DCS testing the cell allocation is 739, 743, 746, 749, 756, 758, 761, 764, 771, 779, 782, 791, 798, 829, 832, 844.

**Table 27: Parameter TSPX\_TCHcarrierB**

|                                                                                                                                                                           |                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Parameter Name                                                                                                                                                            | TSPX_TCHcarrierB_ho |
| Parameter Type                                                                                                                                                            | INTEGER             |
| Parameter Value                                                                                                                                                           |                     |
| References:<br>TSPX_TCHcarrierB_ho is used in: TC_26_6_5_1_1, TC_26_6_5_1_2, TC_26_6_5_1_3,<br>TC_26_6_5_2_5, TC_26_6_5_2_8, TC_26_6_5_3_1, TC_26_6_5_3_2, TC_26_6_5_4_4. |                     |

**B.7.2.1.10 Parameter TSPX\_TCHcarrierB2\_ho**

The parameter TSPX\_TCHcarrierB2\_ho specifies the ARFCN used for the carrier of traffic channel or SDCCH channel of cell B for handover test cases. It can be any value selected from cell allocation for cell B, but not BCCH carrier. For GSM testing the cell allocation is 14, 18, 22, 24, 30, 31, 38, 40, 60, 66, 73, 74, 75, 76, 108, 114. For DCS testing the cell allocation is 739, 743, 746, 749, 756, 758, 761, 764, 771, 779, 782, 791, 798, 829, 832, 844.

**Table 28: Parameter TSPX\_TCHcarrierB2\_ho**

|                                                                |                      |
|----------------------------------------------------------------|----------------------|
| Parameter Name                                                 | TSPX_TCHcarrierB2_ho |
| Parameter Type                                                 | INTEGER              |
| Parameter Value                                                |                      |
| References:<br>TSPX_TCHcarrierB2_ho is used in: TC_26_6_5_2_8. |                      |

**B.7.2.1.11 Parameters for Time Slot**

Parameters in the following table represent the Time Slot used. The item 1 to item 8 are used in test cases where the Time Slot values are arbitrarily selected but controllable. The parameters can have any valid values but they shall be different from each other. Item 1 is the default Time Slot used in the test cases where the Time Slot is not specifically indicated. Item 9 can be any valid value but not zero.

**Table 29: Parameters for Time Slot**

| Item | Name               | Type         | Value |
|------|--------------------|--------------|-------|
| 1    | TSPX_TmSlitDef     | BITSTRING[3] |       |
| 2    | TSPX_TmSlitA       | BITSTRING[3] |       |
| 3    | TSPX_TmSlitB       | BITSTRING[3] |       |
| 4    | TSPX_TmSlitC       | BITSTRING[3] |       |
| 5    | TSPX_TmSlitD       | BITSTRING[3] |       |
| 6    | TSPX_TmSlitE       | BITSTRING[3] |       |
| 7    | TSPX_TmSlitF       | BITSTRING[3] |       |
| 8    | TSPX_TmSlitG       | BITSTRING[3] |       |
| 9    | TSPX_TmSlitNotZero | BITSTRING[3] |       |

References:

TSPX\_TmSlitA is used in: TC\_26\_6\_5\_1\_1, TC\_26\_6\_5\_1\_8, TC\_26\_6\_5\_2\_8, TC\_26\_6\_5\_3\_1, TC\_26\_6\_6\_1, TC\_26\_6\_13\_1.

TSPX\_TmSlitB is used in: TC\_26\_6\_5\_1\_1, TC\_26\_6\_5\_1\_2, TC\_26\_6\_5\_2\_9, TC\_26\_6\_5\_3\_2, TC\_26\_6\_5\_4\_3, TC\_26\_6\_6\_1, TC\_26\_6\_13\_1, TC\_26\_6\_13\_2, TC\_26\_6\_13\_6.

TSPX\_TmSlitC is used in: TC\_26\_6\_3\_4, TC\_26\_6\_4\_2\_1, TC\_26\_6\_5\_1\_3, TC\_26\_6\_5\_2\_6, TC\_26\_6\_5\_2\_10, TC\_26\_6\_5\_5\_1, TC\_26\_6\_5\_5\_2, TC\_26\_6\_5\_6, TC\_26\_6\_5\_7, TC\_26\_6\_5\_8, TC\_26\_6\_5\_9, TC\_26\_6\_6\_1, TC\_26\_6\_12\_4, TC\_26\_6\_13\_2, TC\_26\_6\_13\_7, TC\_26\_8\_1\_4\_3\_1, TC\_26\_8\_1\_4\_3\_2, TC\_26\_8\_1\_4\_5\_6, TC\_26\_8\_1\_4\_5\_7, TC\_26\_8\_2\_1.

TSPX\_TmSlitD is used in: TC\_26\_6\_5\_1\_3, TC\_26\_6\_5\_1\_4, TC\_26\_6\_5\_2\_7, TC\_26\_6\_6\_1, TC\_26\_6\_13\_3, TC\_26\_6\_13\_4, TC\_26\_6\_13\_7, TC\_26\_6\_13\_8.

TSPX\_TmSlitE is used in: TC\_26\_6\_5\_1\_5, TC\_26\_6\_5\_2\_8, TC\_26\_6\_6\_1, TC\_26\_6\_13\_3, TC\_26\_6\_13\_8.

TSPX\_TmSlitF is used in: TC\_26\_6\_5\_1\_6, TC\_26\_6\_5\_2\_6, TC\_26\_6\_5\_2\_9, TC\_26\_6\_6\_1, TC\_26\_6\_13\_4, TC\_26\_6\_13\_9.

TSPX\_TmSlitG is used in: TC\_26\_6\_5\_1\_7, TC\_26\_6\_5\_2\_7, TC\_26\_6\_5\_2\_10, TC\_26\_6\_6\_1, TC\_26\_6\_13\_4, TC\_26\_6\_13\_5, TC\_26\_6\_13\_10.

TSPX\_TmSlitDef is used in: all other test cases.

TSPX\_TmSlitNotZero is used in: TC\_26\_6\_5\_1\_2, TC\_26\_6\_5\_1\_5, TC\_26\_6\_5\_1\_6, TC\_26\_6\_5\_1\_7, TC\_26\_6\_5\_1\_8, TC\_26\_6\_5\_2\_2, TC\_26\_6\_5\_2\_4, TC\_26\_6\_5\_2\_5, TC\_26\_6\_5\_3\_1, TC\_26\_6\_5\_3\_2, TC\_26\_6\_5\_4\_1, TC\_26\_6\_5\_4\_2, TC\_26\_6\_5\_4\_4.

**B.7.2.2 Parameters related logical channel****B.7.2.2.1 Parameters for SDDCH4 Subchannels**

The parameters TSPX\_SDCCH4Sub's indicate the TDMA offset of SDCCH4 subchannels. The item 1 to item 4 in the table are used in test cases where the subchannels are arbitrarily selected but controllable. The parameters can have valid values but they shall be different from each other. Item 1 is the default TDMA offset of SDCCH4 subchannel used in the test cases where the subchannel of SDCCH4 is not specifically indicated.

**Table 30: Parameters for SDCCH4 subchannels**

| Item | Name              | Type         | Value |
|------|-------------------|--------------|-------|
| 1    | TSPX_SDCCH4SubDef | BITSTRING[2] |       |
| 2    | TSPX_SDCCH4SubA   | BITSTRING[2] |       |
| 3    | TSPX_SDCCH4SubB   | BITSTRING[2] |       |
| 4    | TSPX_SDCCH4SubC   | BITSTRING[2] |       |

References:

TSPX\_SDCCH4SubA is used in: TC\_26\_6\_1\_2, TC\_26\_6\_2\_2, TC\_26\_6\_2\_3\_1, TC\_26\_6\_2\_3\_2, TC\_26\_6\_3\_1, TC\_26\_6\_3\_2, TC\_26\_6\_3\_3, TC\_26\_6\_3\_4, TC\_26\_6\_3\_5, TC\_26\_6\_4\_2\_1, TC\_26\_6\_5\_1\_1, TC\_26\_6\_5\_1\_3, TC\_26\_6\_5\_1\_5, TC\_26\_6\_5\_1\_7, TC\_26\_6\_5\_1\_8, TC\_26\_6\_5\_2\_1, TC\_26\_6\_5\_2\_2, TC\_26\_6\_5\_2\_3, TC\_26\_6\_5\_4\_2, TC\_26\_6\_5\_5\_1, TC\_26\_6\_5\_6, TC\_26\_6\_5\_7, TC\_26\_6\_5\_8, TC\_26\_6\_5\_9, TC\_26\_6\_8\_2, TC\_26\_6\_8\_4, TC\_26\_6\_11\_2.

TSPX\_SDCCH4SubB is used in: TC\_26\_6\_1\_2, TC\_26\_6\_1\_4, TC\_26\_6\_2\_1\_2, TC\_26\_6\_2\_2, TC\_26\_6\_2\_3\_1, TC\_26\_6\_2\_3\_2, TC\_26\_6\_3\_4, TC\_26\_6\_4\_2\_2, TC\_26\_6\_5\_1\_2, TC\_26\_6\_5\_1\_4, TC\_26\_6\_5\_1\_6, TC\_26\_6\_5\_3\_1, TC\_26\_6\_5\_3\_2, TC\_26\_6\_5\_5\_1, TC\_26\_6\_5\_5\_2, TC\_26\_6\_5\_6, TC\_26\_6\_5\_7, TC\_26\_6\_5\_8, TC\_26\_6\_5\_9, TC\_26\_6\_8\_3, TC\_26\_6\_8\_4, TC\_26\_6\_8\_5, TC\_26\_6\_13\_5, , TC\_26\_6\_13\_6, TC\_26\_6\_13\_7, TC\_26\_6\_13\_8, TC\_26\_8\_1\_4\_3\_1, TC\_26\_8\_1\_4\_3\_2, TC\_26\_8\_1\_4\_5\_7.

TSPX\_SDCCH4SubC is used in: TC\_26\_6\_2\_1\_1, TC\_26\_6\_5\_5\_1, TC\_26\_6\_5\_8, TC\_26\_6\_8\_4, TC\_26\_6\_11\_1.

TSPX\_SDCCH4SubDef is used in: all other test cases, which use SDCCH4 channel, not listed above.

**B.7.2.2.2 Parameters for SDDCH8 Subchannels**

The parameters TSPX\_SDCCH8Sub's indicate the TDMA offset of SDCCH8 subchannels. The item 1 to item 8 in the table are used in test cases where the subchannels are arbitrarily selected but controllable. The parameters can have any valid values but they shall be different from each other. Item 1 is the default TDMA offset of SDCCH8 subchannel used in the test cases where the subchannel of SDCCH8 is not specifically indicated.

Table 31: Parameters for SDCCH8 subchannels

| Item | Name              | Type         | Value |
|------|-------------------|--------------|-------|
| 1    | TSPX_SDCCH8SubDef | BITSTRING[3] |       |
| 2    | TSPX_SDCCH8SubA   | BITSTRING[3] |       |
| 3    | TSPX_SDCCH8SubB   | BITSTRING[3] |       |
| 4    | TSPX_SDCCH8SubC   | BITSTRING[3] |       |
| 5    | TSPX_SDCCH8SubD   | BITSTRING[3] |       |
| 6    | TSPX_SDCCH8SubE   | BITSTRING[3] |       |
| 7    | TSPX_SDCCH8SubF   | BITSTRING[3] |       |
| 8    | TSPX_SDCCH8SubG   | BITSTRING[3] |       |

References:

TSPX\_SDCCH8SubA is used in: TC\_26\_6\_1\_1, TC\_26\_6\_1\_4, TC\_26\_6\_1\_5, TC\_26\_6\_2\_1\_1, TC\_26\_6\_2\_1\_2, TC\_26\_6\_2\_1\_3, TC\_26\_6\_2\_5, TC\_26\_6\_3\_1, TC\_26\_6\_3\_2, TC\_26\_6\_3\_3, TC\_26\_6\_3\_4, TC\_26\_6\_3\_5, TC\_26\_6\_4\_1, TC\_26\_6\_4\_2\_1, TC\_26\_6\_4\_2\_2, TC\_26\_6\_5\_2\_3, TC\_26\_6\_5\_2\_4, TC\_26\_6\_5\_2\_8, TC\_26\_6\_5\_2\_9, TC\_26\_6\_5\_2\_10, TC\_26\_6\_5\_4\_1, TC\_26\_6\_5\_4\_2, TC\_26\_6\_5\_4\_4, TC\_26\_6\_5\_5\_1, TC\_26\_6\_5\_5\_2, TC\_26\_6\_5\_6, TC\_26\_6\_5\_7, TC\_26\_6\_5\_8, TC\_26\_6\_5\_9, TC\_26\_6\_6\_1, TC\_26\_6\_7\_1, TC\_26\_6\_8\_1, TC\_26\_6\_8\_2, TC\_26\_6\_8\_3, TC\_26\_6\_8\_4, TC\_26\_6\_8\_5, TC\_26\_6\_11\_1, TC\_26\_6\_11\_2, TC\_26\_6\_13\_1, TC\_26\_6\_13\_2, TC\_26\_6\_13\_3, TC\_26\_6\_13\_4, TC\_26\_6\_13\_5, TC\_26\_6\_13\_6, TC\_26\_6\_13\_7, TC\_26\_6\_13\_8, TC\_26\_6\_13\_9, TC\_26\_6\_13\_10.

TSPX\_SDCCH8SubB is used in: TC\_26\_6\_1\_2, TC\_26\_6\_6\_1, TC\_26\_6\_12\_1, TC\_26\_6\_13\_2, TC\_26\_6\_13\_5.

TSPX\_SDCCH8SubC is used in: TC\_26\_6\_1\_2, TC\_26\_6\_6\_1, TC\_26\_6\_13\_2, TC\_26\_6\_13\_6.

TSPX\_SDCCH8SubD is used in: TC\_26\_6\_1\_5.

TSPX\_SDCCH8SubE is used in: TC\_26\_6\_2\_1\_3.

TSPX\_SDCCH8SubF is used in: TC\_26\_6\_2\_5.

TSPX\_SDCCH8SubG is used in: TC\_26\_6\_12\_2.

TSPX\_SDCCH8SubDef is used in: TC\_26\_6\_4\_1, TC\_26\_6\_5\_2\_1, TC\_26\_6\_5\_2\_2, TC\_26\_6\_5\_2\_3, TC\_26\_6\_5\_2\_4, TC\_26\_6\_5\_2\_5, TC\_26\_6\_5\_2\_6, TC\_26\_6\_5\_2\_7, TC\_26\_6\_5\_2\_8, TC\_26\_6\_5\_2\_9, TC\_26\_6\_5\_2\_10, TC\_26\_6\_5\_4\_1, TC\_26\_6\_5\_4\_2, TC\_26\_6\_5\_4\_3, TC\_26\_6\_5\_4\_4, TC\_26\_6\_12\_4.

### B.7.2.2.3 Parameters for Half Rate Traffic Subchannels

The parameters TSPX\_TCHHSub's indicate TDMA offset of Half rate TCH subchannels. The item 1 to item 2 in the table are used in test cases where the subchannels are arbitrarily selected but controllable. The parameters can have any valid values but they shall be different from each other. Item 2 is the default subchannel used in the test cases where the subchannel is not specifically indicated.

Table 32: Parameters for TCHH subchannels

| Item | Name            | Type         | Value |
|------|-----------------|--------------|-------|
| 1    | TSPX_TCHHSubA   | BITSTRING[1] |       |
| 2    | TSPX_TCHHSubDef | BITSTRING[1] |       |

References:

TSPX\_TCHHSubA is used in: TC\_26\_6\_1\_1, TC\_26\_6\_4\_1, TC\_26\_6\_4\_2\_1, TC\_26\_6\_6\_1, TC\_26\_6\_7\_2.

TSPX\_TCHHSubDef is used in: all other (except test cases listed above) test cases which use half rate traffic channel.

**B.7.2.3 Parameters related to Mobile Station****B.7.2.3.1 Parameter TSPX\_ChModeA**

In CC test group, it is required to initiate a mobile originating call for a selected basic service supported by the MS under test. During the call setup, a CHANNEL MODE MODIFY message is used to set the channel compatible with the basic service. The parameter TSPX\_ChModeA specifies the compatible Channel Mode information element for basic service TSPX\_BscSrvA.

**Table 33: Parameter TSPX\_ChModeA**

| Parameter Name: TSPX_ChModeA                           |              |       |              |
|--------------------------------------------------------|--------------|-------|--------------|
| Field                                                  | Type         | Value | Comments     |
| iei                                                    | BITSTRING[8] | OMIT  |              |
| mode                                                   | BITSTRING[8] |       | channel mode |
| References:<br>TSPX_ChModeA is used with TSPX_BscSvcA. |              |       |              |

**B.7.2.3.2 Parameter TSPX\_ChModeB**

In CC test group, it is required to initiate a mobile originating call for a selected basic service supported by the MS under test. During the call setup, a CHANNEL MODE MODIFY message is used to set the channel compatible with the basic service. The parameter TSPX\_ChModeB specifies the compatible Channel Mode information element for basic service TSPX\_BscSrvB.

**Table 34: Parameter TSPX\_ChModeB**

| Parameter Name: TSPX_ChModeB                           |              |       |              |
|--------------------------------------------------------|--------------|-------|--------------|
| Field                                                  | Type         | Value | Comments     |
| iei                                                    | BITSTRING[8] | OMIT  |              |
| mode                                                   | BITSTRING[8] |       | channel mode |
| References:<br>TSPX_ChModeB is used with TSPX_BscSvcB. |              |       |              |

**B.7.2.3.3 Parameter TSPX\_ChModeC**

In CC test group, it is required to initiate a mobile originating call for a selected basic service supported by the MS under test. During the call setup, a CHANNEL MODE MODIFY message is used to set the channel compatible with the basic service. The parameter TSPX\_ChModeC specifies the compatible Channel Mode information element for basic service TSPX\_BscSrvC.

**Table 35: Parameter TSPX\_ChModeC**

| Parameter Name: TSPX_ChModeC                           |              |       |              |
|--------------------------------------------------------|--------------|-------|--------------|
| Field                                                  | Type         | Value | Comments     |
| iei                                                    | BITSTRING[8] | OMIT  |              |
| mode                                                   | BITSTRING[8] |       | channel mode |
| References:<br>TSPX_ChModeC is used with TSPX_BscSvcC. |              |       |              |

**B.7.2.3.4 Parameter TSPX\_ChModeD**

In CC test group, it is required to initiate a mobile originating call for a selected basic service supported by the MS under test. During the call setup, a CHANNEL MODE MODIFY message is used to set the channel compatible with the basic service. The parameter TSPX\_ChModeD specifies the compatible Channel Mode information element for basic service TSPX\_BscSrvD.

Table 36: Parameter TSPX\_ChModeD

| Parameter Name: TSPX_ChModeD                           |              |       |              |
|--------------------------------------------------------|--------------|-------|--------------|
| Field                                                  | Type         | Value | Comments     |
| iei                                                    | BITSTRING[8] | OMIT  |              |
| mode                                                   | BITSTRING[8] |       | channel mode |
| References:<br>TSPX_ChModeD is used with TSPX_BscSvcD. |              |       |              |

**B.7.2.3.5 Parameter TSPX\_ChModeE**

In CC test group it is required to initiate a mobile originating call for a selected basic service supported by the MS under test. During the call setup, a CHANNEL MODE MODIFY message is used to set the channel compatible with the basic service. The parameter TSPX\_ChModeE specifies the compatible Channel Mode information element for basic service TSPX\_BscSrvE.

Table 37: Parameter TSPX\_ChModeE

| Parameter Name: TSPX_ChModeE                           |              |       |              |
|--------------------------------------------------------|--------------|-------|--------------|
| Field                                                  | Type         | Value | Comments     |
| iei                                                    | BITSTRING[8] | OMIT  |              |
| mode                                                   | BITSTRING[8] |       | channel mode |
| References:<br>TSPX_ChModeE is used with TSPX_BscSvcE. |              |       |              |

**B.7.2.3.6 Parameter TSPX\_ChModeF**

In CC test group, it is required to initiate a mobile originating call for a selected basic service supported by the MS under test. During the call setup, a CHANNEL MODE MODIFY message is used to set the channel compatible with the basic service. The parameter TSPX\_ChModeF specifies the compatible Channel Mode information element for basic service TSPX\_BscSrvF.

Table 38: Parameter TSPX\_ChModeF

| Parameter Name: TSPX_ChModeF                           |              |       |              |
|--------------------------------------------------------|--------------|-------|--------------|
| Field                                                  | Type         | Value | Comments     |
| iei                                                    | BITSTRING[8] | OMIT  |              |
| mode                                                   | BITSTRING[8] |       | channel mode |
| References:<br>TSPX_ChModeF is used with TSPX_BscSvcF. |              |       |              |

**B.7.2.3.7 Parameter TSPX\_ChModeG**

In CC test group, it is required to initiate a mobile originating call for a selected basic service supported by the MS under test. During the call setup, a CHANNEL MODE MODIFY message is used to set the channel compatible with the basic service. The parameter TSPX\_ChModeG specifies the compatible Channel Mode information element for basic service TSPX\_BscSrvG.

Table 39: Parameter TSPX\_ChModeG

| Parameter Name: TSPX_ChModeG                           |              |       |              |
|--------------------------------------------------------|--------------|-------|--------------|
| Field                                                  | Type         | Value | Comments     |
| iei                                                    | BITSTRING[8] | OMIT  |              |
| mode                                                   | BITSTRING[8] |       | channel mode |
| References:<br>TSPX_ChModeG is used with TSPX_BscSvcG. |              |       |              |

**B.7.2.3.8 Parameter TSPX\_ChModeH**

In CC test group, it is required to initiate a mobile originating call for a selected basic service supported by the MS under test. During the call setup, a CHANNEL MODE MODIFY message is used to set the channel compatible with the basic service. The parameter TSPX\_ChModeH specifies the compatible Channel Mode information element for basic service TSPX\_BscSrvH.

**Table 40: Parameter TSPX\_ChModeH**

| Parameter Name: TSPX_ChModeH            |              |       |              |
|-----------------------------------------|--------------|-------|--------------|
| Field                                   | Type         | Value | Comments     |
| iei                                     | BITSTRING[8] | OMIT  |              |
| mode                                    | BITSTRING[8] |       | channel mode |
| References:<br>TSPX_ChModeH is used in: |              |       |              |

**B.7.2.3.9 Parameter TSPX\_ChModel**

In CC test group, it is required to initiate a mobile originating call for a selected basic service supported by the MS under test. During the call setup, a CHANNEL MODE MODIFY message is used to set the channel compatible with the basic service. The parameter TSPX\_ChModel specifies the compatible Channel Mode information element for basic service TSPX\_BscSrvI.

**Table 41: Parameter TSPX\_ChModel**

| Parameter Name: TSPX_ChModel                           |              |       |              |
|--------------------------------------------------------|--------------|-------|--------------|
| Field                                                  | Type         | Value | Comments     |
| iei                                                    | BITSTRING[8] | OMIT  |              |
| mode                                                   | BITSTRING[8] |       | channel mode |
| References:<br>TSPX_ChModel is used with TSPX_BscSrvI. |              |       |              |

**B.7.2.3.10 Parameter TSPX\_ChModeJ**

In CC test group, it is required to initiate a mobile originating call for a selected basic service supported by the MS under test. During the call setup, a CHANNEL MODE MODIFY message is used to set the channel compatible with the basic service. The parameter TSPX\_ChModeJ specifies the compatible Channel Mode information element for basic service TSPX\_BscSrvJ.

**Table 42: Parameter TSPX\_ChModeJ**

| Parameter Name: TSPX_ChModeJ                           |              |       |              |
|--------------------------------------------------------|--------------|-------|--------------|
| Field                                                  | Type         | Value | Comments     |
| iei                                                    | BITSTRING[8] | OMIT  |              |
| mode                                                   | BITSTRING[8] |       | channel mode |
| References:<br>TSPX_ChModeJ is used with TSPX_BscSrvJ. |              |       |              |

**B.7.2.3.11 Parameter TSPX\_UuInfo**

It is required to initiate a mobile terminating call with a SETUP message which contains a bearer capability supported by the MS and user-user information. The parameter TSPX\_UuInfo specifies the value of the user-user information element.



Table 43: Parameter TSPX\_UuInfo

| Parameter Name: TSPX_UuInfo                    |                    |             |                                  |
|------------------------------------------------|--------------------|-------------|----------------------------------|
| Field                                          | Type               | Value       | Comments                         |
| iei                                            | BITSTRING[8]       | '01111110'B |                                  |
| iel                                            | OCTETSTRING[1]     |             | length of the element            |
| uupd                                           | BITSTRING[8]       |             | user-user protocol discriminator |
| uui                                            | OCTETSTRING[0..64] |             | user-user information            |
| References:                                    |                    |             |                                  |
| TSPX_UuInfo is used in: test case TC_26_8_3_2. |                    |             |                                  |

#### B.7.2.3.12 Parameters for selection of a circuit switched basic services

In CC test group, it is required that for each test, unless otherwise specified, a circuit switched basic service among those supported by the MS shall be chosen arbitrarily (but controllable). The TSPX\_BscSvc's in the following tables represent 10 circuit switched basic services supported by the MS under test. If the number of circuit switched basic services supported by the MS is less than 10 duplicated values shall be used for the rest part of the table.

The possible values are as following:

- "C\_Telephony": telephony teleservice (TS11),
- "C\_EmgCallSvc": emergency call teleservice (TS12),
- "C\_AltSpchG3": alternate speech and G3 fax teleservice (TS61),
- "C\_AutoG3": automatic G3 fax teleservice (TS62),
- "C\_300cda": data circuit duplex asynchronous 300 bit/s bearer service (BS21),
- "C\_1200cda": data circuit duplex asynchronous 1 200 bit/s bearer service (BS22),
- "C\_120075cda": data circuit duplex asynchronous 120 075 bit/s bearer service (BS23),
- "C\_2400cda": data circuit duplex asynchronous 2 400 bit/s bearer service (BS24),
- "C\_4800cda": data circuit duplex asynchronous 4 800 bit/s bearer service (BS25),
- "C\_9600cda": data circuit duplex asynchronous 9 600 bit/s bearer service (BS26),
- "C\_1200cds": data circuit duplex synchronous 1 200 bit/s bearer service (BS31),
- "C\_2400cds": data circuit duplex synchronous 2 400 bit/s bearer service (BS32),
- "C\_4800cds": data circuit duplex synchronous 4 800 bit/s bearer service (BS33),
- "C\_9600cds": data circuit duplex synchronous 9 600 bit/s bearer service (BS34),
- "C\_PAD300": PAD access 300 bit/s bearer service (BS41),
- "C\_PAD1200": PAD access 1 200 bit/s bearer service (BS42),
- "C\_PAD120075": PAD access 120 075 bit/s bearer service (BS43),
- "C\_PAD2400": PAD access 2 400 bit/s bearer service (BS44),
- "C\_PAD4800": PAD access 4 800 bit/s bearer service (BS45),
- "C\_PAD9600": PAD access 9 600 bit/s bearer service (BS46),
- "C\_Pkt2400": packet access 2 400 bit/s bearer service (BS51),
- "C\_Pkt4800": packet access 4 800 bit/s bearer service (BS52),
- "C\_Pkt9600": packet access 9 600 bit/s bearer service (BS53),
- "C\_AltSpchData": alternate speech/data bearer service (BS61),
- "C\_SpchData": speech followed data bearer service (BS81),

| Item | Name         | Type      | Value | Comments |
|------|--------------|-----------|-------|----------|
| 1    | TSPX_BscSvcA | IA5String |       |          |
| 2    | TSPX_BscSvcB | IA5String |       |          |
| 3    | TSPX_BscSvcC | IA5String |       |          |
| 4    | TSPX_BscSvcD | IA5String |       |          |
| 5    | TSPX_BscSvcE | IA5String |       |          |
| 6    | TSPX_BscSvcF | IA5String |       |          |
| 7    | TSPX_BscSvcG | IA5String |       |          |
| 8    | TSPX_BscSvcH | IA5String |       |          |
| 9    | TSPX_BscSvcI | IA5String |       |          |
| 10   | TSPX_BscSvcJ | IA5String |       |          |

Remarks:

TSPX\_BscSvcA is used in: TC\_26\_8\_1\_2\_2\_1, TC\_26\_8\_1\_2\_3\_4, TC\_26\_8\_1\_2\_4\_7, TC\_26\_8\_1\_2\_8\_1, TC\_26\_8\_1\_2\_8\_4, TC\_26\_8\_1\_3\_2\_1, TC\_26\_8\_1\_3\_4\_8, TC\_26\_8\_1\_3\_5\_3, TC\_26\_8\_3.

TSPX\_BscSvcB is used in: TC\_26\_8\_1\_2\_2\_2, TC\_26\_8\_1\_2\_3\_1, TC\_26\_8\_1\_2\_3\_5, TC\_26\_8\_1\_2\_8\_2, TC\_26\_8\_1\_3\_3\_1, TC\_26\_8\_1\_3\_5\_4, TC\_26\_8\_1\_3\_5\_7.

TSPX\_BscSvcC is used in: TC\_26\_8\_1\_2\_2\_3, TC\_26\_8\_1\_2\_3\_2, TC\_26\_8\_1\_2\_3\_6, TC\_26\_8\_1\_2\_5\_4, TC\_26\_8\_1\_2\_9\_4, TC\_26\_8\_1\_3\_3\_3, TC\_26\_8\_1\_3\_5\_5, TC\_26\_8\_1\_3\_5\_9, TC\_26\_8\_1\_4\_3\_1.

TSPX\_BscSvcD is used in: TC\_26\_8\_1\_2\_3\_3, TC\_26\_8\_1\_2\_3\_7, TC\_26\_8\_1\_2\_4\_11, TC\_26\_8\_1\_2\_5\_5, TC\_26\_8\_1\_2\_9\_5, TC\_26\_8\_1\_3\_3\_2, TC\_26\_8\_1\_3\_3\_4, TC\_26\_8\_1\_3\_5\_6, TC\_26\_8\_1\_4\_2\_1.

TSPX\_BscSvcE is used in: TC\_26\_8\_1\_2\_4\_1, TC\_26\_8\_1\_2\_4\_8, TC\_26\_8\_1\_2\_4\_10, TC\_26\_8\_1\_2\_4\_12, TC\_26\_8\_1\_2\_5\_6, TC\_26\_8\_1\_2\_5\_8, TC\_26\_8\_1\_3\_3\_5, TC\_26\_8\_1\_3\_4\_1, TC\_26\_8\_1\_3\_5\_8, TC\_26\_8\_1\_4\_3\_2.

TSPX\_BscSvcF is used in: TC\_26\_8\_1\_2\_4\_2, TC\_26\_8\_1\_2\_4\_9, TC\_26\_8\_1\_2\_4\_13, TC\_26\_8\_1\_2\_5\_1, TC\_26\_8\_1\_2\_6\_3, TC\_26\_8\_1\_2\_7\_4, TC\_26\_8\_1\_3\_3\_6, TC\_26\_8\_1\_3\_4\_2, TC\_26\_8\_1\_4\_4\_1.

TSPX\_BscSvcG is used in: TC\_26\_8\_1\_2\_4\_3, TC\_26\_8\_1\_2\_5\_2, TC\_26\_8\_1\_2\_5\_7, TC\_26\_8\_1\_2\_6\_4, TC\_26\_8\_1\_2\_7\_5, TC\_26\_8\_1\_3\_3\_7, TC\_26\_8\_1\_3\_4\_6.

TSPX\_BscSvcH is used in: TC\_26\_8\_1\_2\_4\_4, TC\_26\_8\_1\_2\_6\_1, TC\_26\_8\_1\_2\_6\_5,  
TC\_26\_8\_1\_2\_7\_1, TC\_26\_8\_1\_2\_9\_1, TC\_26\_8\_1\_3\_4\_3, TC\_26\_8\_1\_3\_4\_7.

TSPX\_BscSvcI is used in: TC\_26\_8\_1\_2\_4\_5, TC\_26\_8\_1\_2\_6\_2, TC\_26\_8\_1\_2\_7\_2,  
TC\_26\_8\_1\_2\_8\_3, TC\_26\_8\_1\_2\_9\_2, TC\_26\_8\_1\_3\_4\_4, TC\_26\_8\_1\_3\_5\_1.

TSPX\_BscSvcJ is used in: TC\_26\_8\_1\_2\_4\_6, TC\_26\_8\_1\_2\_6\_6, TC\_26\_8\_1\_2\_7\_3,  
TC\_26\_8\_1\_2\_9\_3, TC\_26\_8\_1\_3\_4\_5, TC\_26\_8\_1\_3\_5\_2.

### **B.7.2.3.13 Parameters of Bearer Capability**

For some non CC testing a full rate bearer capability IE supported by the MS is needed, and if the MS supports dual rate a half rate bearer capability IE supported by the MS is also needed.

#### **B.7.2.3.13.1 Parameter TSPX\_BCa**

The value of the bearer capability in this table shall be any full rate bearer capability supported. The contents of this IE can be copied from the section "Parameters for Setup message".

Table 44: Parameter TSPX\_BCa

| Parameter Name: TSPX_BCa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |             |                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|--------------------------------------------|
| Field                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Type           | Value       | Comments                                   |
| iei                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | BITSTRING[8]   | '00000100'B |                                            |
| iel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | OCTETSTRING[1] |             | length of the IE in unit of OCTET          |
| extb3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | BITSTRING[1]   |             | extension bit                              |
| rchr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | BITSTRING[2]   | '00'B       | spare bit in the direction n -> ms         |
| cs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BITSTRING[1]   |             | coding standard                            |
| tm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BITSTRING[1]   |             | transfer mode                              |
| itc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | BITSTRING[3]   |             | information transfer capability            |
| extb4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | BITSTRING[1]   |             | extension bit                              |
| spb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | BITSTRING[1]   | '0'B        | spare bit                                  |
| strc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | BITSTRING[1]   |             | structure                                  |
| dplxm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | BITSTRING[2]   |             | duplex mode                                |
| config                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | BITSTRING[1]   |             | configuration                              |
| nirr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | BITSTRING[1]   |             | negotiation of intermediate rate requested |
| est                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | BITSTRING[1]   |             | establishment                              |
| extb5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | BITSTRING[1]   |             | extension bit                              |
| accid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | BITSTRING[2]   |             | access identify                            |
| ra                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BITSTRING[2]   |             | rate adaption                              |
| sacp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | BITSTRING[3]   |             | signalling access protocol                 |
| extb6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | BITSTRING[1]   |             | extension bit                              |
| l1id                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | BITSTRING[2]   |             | L1 identity                                |
| uil1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | BITSTRING[4]   |             | user information L 1 protocol              |
| sb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BITSTRING[1]   |             | synchronous bit                            |
| extb6a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | BITSTRING[1]   |             | extension bit                              |
| nsb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | BITSTRING[1]   |             | number of stop bits                        |
| nb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BITSTRING[1]   |             | negotiation bit                            |
| ndb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | BITSTRING[1]   |             | number of data bits                        |
| ur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BITSTRING[4]   |             | user rate                                  |
| extb6b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | BITSTRING[1]   |             | extension bit                              |
| ir                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BITSTRING[2]   |             | intermediate rate                          |
| nictx                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | BITSTRING[1]   |             | network independent clock on transmission  |
| nicrx                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | BITSTRING[1]   |             | network independent clock on reception     |
| pi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BITSTRING[3]   |             | parity information                         |
| extb6c                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | BITSTRING[1]   |             | extension bit                              |
| ce                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BITSTRING[2]   |             | connection element                         |
| modemt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | BITSTRING[5]   |             | modem type                                 |
| extb7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | BITSTRING[1]   |             | extension bit                              |
| l2id                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | BITSTRING[2]   |             | L2 identity                                |
| uil2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | BITSTRING[5]   |             | user information L2 protocol               |
| References:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |             |                                            |
| TSPX_BCa is used in:TC_11_3, TC_26_5_1, TC_26_5_2_2, TC_26_5_2_3, TC_26_5_3_1, TC_26_5_3_2, TC_26_5_3_3, TC_26_5_3_4, TC_26_5_5_1_2, TC_26_5_5_2_1, TC_26_5_5_2_2, TC_26_5_5_3_1_1, TC_26_5_5_3_1_2, TC_26_5_6_2_2, TC_26_5_6_2_3, TC_26_5_6_2_4, TC_26_5_7_1_4, TC_26_6_3_1, TC_26_6_3_2, TC_26_6_3_3, TC_26_6_3_4, TC_26_6_3_5, TC_26_6_4_2_1, TC_26_6_5_1_1, TC_26_6_5_1_2, TC_26_6_5_1_3, TC_26_6_5_1_4, TC_26_6_5_1_5, TC_26_6_5_1_6, TC_26_6_5_1_7, TC_26_6_5_1_8, TC_26_6_5_3_1, TC_26_6_5_3_2, TC_26_6_5_5_1, TC_26_6_5_6, TC_26_6_5_7, TC_26_6_5_8, TC_26_6_5_9, TC_26_7_5_7_2, TC_26_8_1_2_6_6, TC_26_9_4, TC_26_9_5, TC_31_2_1_7_1_1, TC_31_2_1_7_2, TC_31_6_1_2, TC_31_6_2_5, TC_31_8_7, TC_34_2_1, TC_34_2_2. |                |             |                                            |

**B.7.2.3.13.2 Parameter TSPX\_BCb**

The value of the bearer capability in this table shall be any half rate bearer capability supported. If the MS does not support half rate, the table is skipped.

Table 45: Parameter TSPX\_BCb

| Parameter Name: TSPX_BCb                                  |                |             |                                            |
|-----------------------------------------------------------|----------------|-------------|--------------------------------------------|
| Field                                                     | Type           | Value       | Comments                                   |
| iei                                                       | BITSTRING[8]   | '00000100'B |                                            |
| iel                                                       | OCTETSTRING[1] |             | length of the IE in unit of OCTET          |
| extb3                                                     | BITSTRING[1]   |             | extension bit                              |
| rchr                                                      | BITSTRING[2]   | '00'B       | spare bit in the direction n -> ms         |
| cs                                                        | BITSTRING[1]   |             | coding standard                            |
| tm                                                        | BITSTRING[1]   |             | transfer mode                              |
| itc                                                       | BITSTRING[3]   |             | information transfer capability            |
| extb4                                                     | BITSTRING[1]   |             | extension bit                              |
| spb                                                       | BITSTRING[1]   | '0'B        | spare bit                                  |
| strc                                                      | BITSTRING[1]   |             | structure                                  |
| dplx                                                      | BITSTRING[2]   |             | duplex mode                                |
| config                                                    | BITSTRING[1]   |             | configuration                              |
| nirr                                                      | BITSTRING[1]   |             | negotiation of intermediate rate requested |
| est                                                       | BITSTRING[1]   |             | establishment                              |
| extb5                                                     | BITSTRING[1]   |             | extension bit                              |
| accid                                                     | BITSTRING[2]   |             | access identify                            |
| ra                                                        | BITSTRING[2]   |             | rate adoption                              |
| sacp                                                      | BITSTRING[3]   |             | signalling access protocol                 |
| extb6                                                     | BITSTRING[1]   |             | extension bit                              |
| l1id                                                      | BITSTRING[2]   |             | L1 identity                                |
| uil1                                                      | BITSTRING[4]   |             | user information L 1 protocol              |
| sb                                                        | BITSTRING[1]   |             | synchronous bit                            |
| extb6a                                                    | BITSTRING[1]   |             | extension bit                              |
| nsb                                                       | BITSTRING[1]   |             | number of stop bits                        |
| nb                                                        | BITSTRING[1]   |             | negotiation bit                            |
| ndb                                                       | BITSTRING[1]   |             | number of data bits                        |
| ur                                                        | BITSTRING[4]   |             | user rate                                  |
| extb6b                                                    | BITSTRING[1]   |             | extension bit                              |
| ir                                                        | BITSTRING[2]   |             | intermediate rate                          |
| nictx                                                     | BITSTRING[1]   |             | network independent clock on transmission  |
| nicrx                                                     | BITSTRING[1]   |             | network independent clock on reception     |
| pi                                                        | BITSTRING[3]   |             | parity information                         |
| extb6c                                                    | BITSTRING[1]   |             | extension bit                              |
| ce                                                        | BITSTRING[2]   |             | connection element                         |
| modemt                                                    | BITSTRING[5]   |             | modem type                                 |
| extb7                                                     | BITSTRING[1]   |             | extension bit                              |
| l2id                                                      | BITSTRING[2]   |             | L2 identity                                |
| uil2                                                      | BITSTRING[5]   |             | user information L2 protocol               |
| References:                                               |                |             |                                            |
| TSPX_BCb is used in: TC_26_6_4_2_1, TC_26_9_4, TC_26_9_5. |                |             |                                            |

#### B.7.2.3.14 Parameter TSPX\_BC2

In some test cases, it is required to check the MS behaviour of receiving a SETUP message containing a bearer capability which is not supported by the MS. The parameter TSPX\_BC2 specifies such non-supported bearer capability IE.

Table 46: Parameter TSPX\_BC2

| Parameter Name: TSPX_BC2                                                |                |             |                                            |
|-------------------------------------------------------------------------|----------------|-------------|--------------------------------------------|
| Field                                                                   | Type           | Value       | Comments                                   |
| iei                                                                     | BITSTRING[8]   | '00000100'B |                                            |
| iel                                                                     | OCTETSTRING[1] |             | length of the IE in unit of OCTET          |
| extb3                                                                   | BITSTRING[1]   |             | extension bit                              |
| rchr                                                                    | BITSTRING[2]   | '00'B       | spare bit in the direction n -> ms         |
| cs                                                                      | BITSTRING[1]   |             | coding standard                            |
| tm                                                                      | BITSTRING[1]   |             | transfer mode                              |
| itc                                                                     | BITSTRING[3]   |             | information transfer capability            |
| extb4                                                                   | BITSTRING[1]   |             | extension bit                              |
| spb                                                                     | BITSTRING[1]   | '0'B        | spare bit                                  |
| strc                                                                    | BITSTRING[1]   |             | structure                                  |
| dplx                                                                    | BITSTRING[2]   |             | duplex mode                                |
| config                                                                  | BITSTRING[1]   |             | configuration                              |
| nirr                                                                    | BITSTRING[1]   |             | negotiation of intermediate rate requested |
| est                                                                     | BITSTRING[1]   |             | establishment                              |
| extb5                                                                   | BITSTRING[1]   |             | extension bit                              |
| accid                                                                   | BITSTRING[2]   |             | access identify                            |
| ra                                                                      | BITSTRING[2]   |             | rate adaption                              |
| sacp                                                                    | BITSTRING[3]   |             | signalling access protocol                 |
| extb6                                                                   | BITSTRING[1]   |             | extension bit                              |
| l1id                                                                    | BITSTRING[2]   |             | L1 identity                                |
| uil1                                                                    | BITSTRING[4]   |             | user information L 1 protocol              |
| sb                                                                      | BITSTRING[1]   |             | synchronous bit                            |
| extb6a                                                                  | BITSTRING[1]   |             | extension bit                              |
| nsb                                                                     | BITSTRING[1]   |             | number of stop bits                        |
| nb                                                                      | BITSTRING[1]   |             | negotiation bit                            |
| ndb                                                                     | BITSTRING[1]   |             | number of data bits                        |
| ur                                                                      | BITSTRING[4]   |             | user rate                                  |
| extb6b                                                                  | BITSTRING[1]   |             | extension bit                              |
| ir                                                                      | BITSTRING[2]   |             | intermediate rate                          |
| nictx                                                                   | BITSTRING[1]   |             | network independent clock on transmission  |
| nicrx                                                                   | BITSTRING[1]   |             | network independent clock on reception     |
| pi                                                                      | BITSTRING[3]   |             | parity information                         |
| extb6c                                                                  | BITSTRING[1]   |             | extension bit                              |
| ce                                                                      | BITSTRING[2]   |             | connection element                         |
| modemt                                                                  | BITSTRING[5]   |             | modem type                                 |
| extb7                                                                   | BITSTRING[1]   |             | extension bit                              |
| l2id                                                                    | BITSTRING[2]   |             | L2 identity                                |
| uil2                                                                    | BITSTRING[5]   |             | user information L2 protocol               |
| References:                                                             |                |             |                                            |
| TSPX_BC2 is used in: TC_26_8_1_3_1_1, TC_26_8_1_4_4_1, TC_26_8_1_4_5_4. |                |             |                                            |

### B.7.2.3.15 Parameters for Low Layer Compatibility

The Lower Layer Compatibility IE which is appropriate for the corresponding BC, shall also included in the call SETUP message. The parameter TSPX\_LLCmp's specify the values of the information elements. If no Low Layer Compatibility IE available for the corresponding BC the box "omitted?" shall be filled with OMIT and the rest are skipped, otherwise the box "omitted?" shall be skipped. The information element shall be omitted from the setup message when the box "omitted?" is filled with OMIT.

#### B.7.2.3.15.1 Parameter TSPX\_LLCmpA

TSPX\_LLCmpA is the value of the low layer compatibility appropriate for the bearer capability TSPX\_BCa.

Table 47: Parameter TSPX\_LLCmpA

| Parameter Name: TSPX_LLCmpA                      |                    |             |                       |
|--------------------------------------------------|--------------------|-------------|-----------------------|
| omitted?                                         |                    |             |                       |
| Field                                            | Type               | Value       | Comments              |
| iei                                              | BITSTRING[8]       | '01111100'B |                       |
| iel                                              | OCTETSTRING[1]     |             | length of the element |
| contents                                         | OCTETSTRING[1..13] |             | ETS 300 102-1         |
| References:<br>TSPX_LLCmpA is used with TSPX_BCa |                    |             |                       |

**B.7.2.3.15.2 Parameter TSPX\_LLCmpB**

TSPX\_LLCmpB is the value of the low layer compatibility appropriate for the bearer capability TSPX\_BCb.

Table 48: Parameter TSPX\_LLCmpB

| Parameter Name: TSPX_LLCmpB                      |                    |             |                       |
|--------------------------------------------------|--------------------|-------------|-----------------------|
| omitted?                                         |                    |             |                       |
| Field                                            | Type               | Value       | Comments              |
| iei                                              | BITSTRING[8]       | '01111100'B |                       |
| iel                                              | OCTETSTRING[1]     |             | length of the element |
| contents                                         | OCTETSTRING[1..13] |             | ETS 300 102-1         |
| References:<br>TSPX_LLCmpB is used with TSPX_BCb |                    |             |                       |

**B.7.2.3.16 Parameters for High Layer Compatibility**

The High Layer Compatibility IE which is appropriate for the corresponding BC, shall also included in the call SETUP message. The parameter TSPX\_HLCmp's specify the values of the information elements. If no High Layer Compatibility IE available for the corresponding BC the box "omitted?" shall be filled with OMIT and the rest are skipped, otherwise the box "omitted?" shall be skipped. The information element shall be omitted from the setup message when the box "omitted?" is filled with OMIT.

**B.7.2.3.16.1 Parameter TSPX\_HLCmpA**

TSPX\_HLCmpA is the value of the low layer compatibility appropriate for the bearer capability TSPX\_BCa.

Table 49: Parameter TSPX\_HLCmpA

| Parameter Name: TSPX_HLCmpA                      |                |             |                                                   |
|--------------------------------------------------|----------------|-------------|---------------------------------------------------|
| omitted?                                         |                |             |                                                   |
| Field                                            | Type           | Value       | Comments                                          |
| iei                                              | BITSTRING[8]   | '01111101'B |                                                   |
| iel                                              | OCTETSTRING[1] |             | length of the element                             |
| extb3                                            | BITSTRING[1]   | '1'B        |                                                   |
| cs                                               | BITSTRING[2]   |             | coding standard                                   |
| in                                               | BITSTRING[3]   |             | interpretation                                    |
| pmp                                              | BITSTRING[2]   |             | presentation method of protocol                   |
| extb4                                            | BITSTRING[1]   | '1'B        |                                                   |
| hlci                                             | BITSTRING[7]   |             | high layer characteristic identification          |
| extb4a                                           | BITSTRING[1]   | '1'B        |                                                   |
| ehlci                                            | BITSTRING[7]   |             | extended high layer characteristic identification |
| References:<br>TSPX_HLCmpA is used with TSPX_BCa |                |             |                                                   |

**B.7.2.3.16.2 Parameter TSPX\_HLCmpB**

TSPX\_HLCmpB is the value of the low layer compatibility appropriate for the bearer capability TSPX\_BCb.

**Table 50: Parameter TSPX\_HLCmpB**

| Parameter Name: TSPX_HLCmpB                      |                |             |                                                   |
|--------------------------------------------------|----------------|-------------|---------------------------------------------------|
| omitted?                                         |                |             |                                                   |
| Field                                            | Type           | Value       | Comments                                          |
| iei                                              | BITSTRING[8]   | '01111101'B |                                                   |
| iel                                              | OCTETSTRING[1] |             | length of the element                             |
| extb3                                            | BITSTRING[1]   | '1'B        |                                                   |
| cs                                               | BITSTRING[2]   |             | coding standard                                   |
| in                                               | BITSTRING[3]   |             | interpretation                                    |
| pmpp                                             | BITSTRING[2]   |             | presentation method of protocol                   |
| extb4                                            | BITSTRING[1]   | '1'B        |                                                   |
| hlci                                             | BITSTRING[7]   |             | high layer characteristic identification          |
| extb4a                                           | BITSTRING[1]   | '1'B        |                                                   |
| ehlci                                            | BITSTRING[7]   |             | extended high layer characteristic identification |
| References:<br>TSPX_HLCmpB is used with TSPX_BCb |                |             |                                                   |

**B.7.2.3.17 Parameter TSPX\_IMSI**

Parameter TSPX\_IMSI is the default value of IMSI which will be stored in the test SIM card. The parameter shall be a 18 Hex digits long value, the most significant 8 HEX digits shall be 08091010 the rest 10 HEX digits can any value from 0 to 9 except that IMSI mod 1 000 shall lie in one of the following ranges: 063-125, 189-251, 315-377, 441-503, 567-629, 693-755, 819-881, 945-999.

**Table 51: Parameter TSPX\_IMSI**

|                                                                                       |                  |
|---------------------------------------------------------------------------------------|------------------|
| Parameter Name                                                                        | TSPX_IMSI        |
| Parameter Type                                                                        | HEXSTRING[18]    |
| Parameter Value                                                                       | '08091010_____H' |
| References:<br>TSPX_IMSI is the default value of IMSI, used in almost all test cases. |                  |

NOTE: The '\_' in the above table means the value of this position shall be provided

**B.7.2.3.18 Parameter TSPX\_IMEI**

Parameter TSPX\_IMEI is the value of IMEI which belongs to the MS.

**Table 52: Parameter TSPX\_IMEI**

|                                                                                                                                                                                          |               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Parameter Name                                                                                                                                                                           | TSPX_IMEI     |
| Parameter Type                                                                                                                                                                           | HEXSTRING[15] |
| Parameter Value                                                                                                                                                                          | '_____H'      |
| References:<br>TSPX_IMEI is used in: TC_26_7_2_2, TC_26_7_3_1, TC_26_7_4_2_1, TC_26_7_4_2_2_1, TC_26_7_4_2_3, TC_26_7_4_2_4_2, TC_26_7_5_7_1, TC_26_9_6_2_1, TC_26_9_6_2_2, TC_31_6_2_4. |               |

NOTE: The '\_' in the above table means the value of this position shall be provided



**B.7.2.3.19 Parameter TSPX\_IMEISV**

Parameter TSPX\_IMEISV is the value of IMEISV which belongs to the MS.

**Table 53: Parameter TSPX\_IMEISV**

|                                                                  |               |
|------------------------------------------------------------------|---------------|
| Parameter Name                                                   | TSPX_IMEISV   |
| Parameter Type                                                   | HEXSTRING[16] |
| Parameter Value                                                  | '_____ "H     |
| References:<br>TSPX_IMEISV is used in: TC_26_6_8_5, TC_26_7_3_1. |               |

NOTE: The '\_' in the above table means the value of this position shall be provided

**B.7.2.3.20 Parameter TSPX\_MSTxpwrMax**

Parameter TSPX\_MSTxpwrMax is the value of maximum output power of the MS under test.

**Table 54: Parameter TSPX\_MSTxpwrMax**

|                                                                                                                          |                 |
|--------------------------------------------------------------------------------------------------------------------------|-----------------|
| Parameter Name                                                                                                           | TSPX_MSTxpwrMax |
| Parameter Type                                                                                                           | BITSTRING[5]    |
| Parameter Value                                                                                                          |                 |
| References:<br>TSPX_MSTxpwrMax is used in: TC_26_3_2, TC_26_3_3, TC_26_6_4_2_1, TC_26_6_5_5_1, TC_26_6_5_8, TC_26_6_5_9. |                 |

**B.7.2.3.21 Parameters for Power Level**

The parameters TSPX\_PwrlvI's represent the power level used in Power Control Command. They are used in test cases where the power level are arbitrarily selected but controllable. The parameters can have any valid values supported by the MS but they shall be different from each other.

**Table 55: Parameters for Power level**

| Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Name         | Type         | Value |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|-------|
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | TSPX_PwrlvIA | BITSTRING[5] |       |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | TSPX_PwrlvIB | BITSTRING[5] |       |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | TSPX_PwrlvIC | BITSTRING[5] |       |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | TSPX_PwrlvID | BITSTRING[5] |       |
| References:<br>TSPX_PwrlvIA is used in: TC_26_6_5_1_1, TC_26_6_5_1_2, TC_26_6_5_2_1, TC_26_6_5_2_2, TC_26_6_5_4_1, TC_26_6_5_4_3, TC_26_6_13_1, TC_26_6_13_5.<br><br>TSPX_PwrlvIB is used in: TC_26_6_5_1_3, TC_26_6_5_1_4, TC_26_6_5_2_3, TC_26_6_5_2_4, TC_26_6_5_2_5, TC_26_6_5_4_2, TC_26_6_13_2, TC_26_6_13_6.<br><br>TSPX_PwrlvIC is used in: TC_26_6_5_1_5, TC_26_6_5_1_6, TC_26_6_5_2_6, TC_26_6_5_2_7, TC_26_6_5_3_2, TC_26_6_13_3, TC_26_6_13_7, TC_34_2_1, TC_34_2_2, TC_34_2_3, TC_34_2_4, TC_34_2_5_1, TC_34_2_5_2, TC_34_2_5_3, TC_34_2_7, TC_34_3.<br><br>TSPX_PwrlvID is used in: TC_26_5_1_7, TC_26_5_1_8, TC_26_5_2_8, TC_26_5_2_9, TC_26_5_2_10, TC_26_5_3_1, TC_26_5_4_4, TC_26_13_4, TC_26_13_8. |              |              |       |

**B.7.2.3.22 Parameter TSPX\_TMSI**

This parameter is the default TMSI value for the MS, and is programmed into the SIM card used in the test. It can be any valid value.

**Table 56: Parameter TSPX\_TMSI**

|                 |                |
|-----------------|----------------|
| Parameter Name  | TSPX_TMSI      |
| Parameter Type  | OCTETSTRING[4] |
| Parameter Value | '-----'O       |
| Remarks:        |                |

**B.7.2.3.23 Parameter TSPX\_TMSI1**

This parameter is used as a newly assigned TMSI for the MS. It can be any value except that it shall not be the same as TSPX\_TMSI or TSPX\_TMSI + 1 or TSPX\_TMSI + 2 or TSPX\_TMSI + 3.

**Table 57: Parameter TSPX\_TMSI1**

|                                                                                                     |             |
|-----------------------------------------------------------------------------------------------------|-------------|
| Parameter Name                                                                                      | TSPX_TMSI1  |
| Parameter Type                                                                                      | OCTETSTRING |
| Parameter Value                                                                                     |             |
| Remarks:<br>TSPX_TMSI1 is used in: TC_26_2_2, TC_26_5_6_1_1, TC_26_5_6_1_2, TC_26_7_1, TC_26_7_4_1. |             |

**B.7.2.3.24 Parameters for Basic service selection**

In the CC test group, it is required that a circuit switched basic service among those supported by the MS is selected arbitrarily for each test case, and the test is against that selected basic service. Parameters in the table are used by the test laboratory to control which test cases use which basic service for testing. The test laboratory fills in the following table according to ICS answers of which circuit switched basic services are supported. If the number of supported circuit switched basic services is more than 10, select 10 of them to put in the following table. If the number of supported circuit switched basic services is less than 10, repeat some of them in the following table. The possible values for the following table are:

- C\_Telephony represents teleservice "telephony"
- C\_EmgCallSRV represents teleservice "emergency call"
- C\_SMSMTTP represents teleservice "short message MT/PP"
- C\_SMSMOPP represents teleservice "short message MO/PP"
- C\_SMSCellBRD represents teleservice "SMS cell broadcast"
- C\_SpchAltG3 represents teleservice "alternative speech and G3 fax"
- C\_AutoG3 represents teleservice "automatic G3 fax"
- C\_300cda represents bearer service "data circuit duplex async. 300 bit/s"
- C\_1200cda represents bearer service "data circuit duplex async. 1 200 bit/s"
- C\_120075cda represents bearer service "data circuit duplex async. 1200/75 bit/s"
- C\_2400cda represents bearer service "data circuit duplex async. 2 400 bit/s"
- C\_4800cda represents bearer service "data circuit duplex async. 4 800 bit/s"
- C\_9600cda represents bearer service "data circuit duplex async. 9 600 bit/s"
- C\_1200cda represents bearer service "data circuit duplex sync. 1 200 bit/s"
- C\_2400cda represents bearer service "data circuit duplex sync. 2 400 bit/s"
- C\_4800cda represents bearer service "data circuit duplex sync. 4 800 bit/s"
- C\_9600cda represents bearer service "data circuit duplex sync. 9 600 bit/s"
- C\_PAD300 represents bearer service "PAD access 300 bit/s"
- C\_PAD1200 represents bearer service "PAD access 1 200 bit/s"
- C\_PAD120075 represents bearer service "PAD access 1200/75 bit/s"
- C\_PAD2400 represents bearer service "PAD access 2 400 bit/s"
- C\_PAD4800 represents bearer service "PAD access 4 800 bit/s"
- C\_PAD9600 represents bearer service "PAD access 9 600 bit/s"
- C\_Pkt2400 represents bearer service "packet access 2 400 bit/s"
- C\_Pkt4800 represents bearer service "packet access 4 800 bit/s"
- C\_Pkt9600 represents bearer service "packet access 9 600 bit/s"
- C\_AltSpchData represents bearer service "alternate speech/data"
- C\_Pkt9600 represents bearer service "speech followed by data"

Table 58: Parameters for basic service selection

| Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Name         | Type      | Value |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------|-------|
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TSPX_BscSrvA | IA5String |       |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TSPX_BscSrvB | IA5String |       |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TSPX_BscSrvC | IA5String |       |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TSPX_BscSrvD | IA5String |       |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TSPX_BscSrvE | IA5String |       |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TSPX_BscSrvF | IA5String |       |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TSPX_BscSrvG | IA5String |       |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TSPX_BscSrvH | IA5String |       |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TSPX_BscSrvI | IA5String |       |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | TSPX_BscSrvJ | IA5String |       |
| <p>Remarks:</p> <p>TSPX_BscSvcA controls the test cases: TC_26_8_1_2_2_1, TC_26_8_1_2_3_4, TC_26_8_1_2_4_7, TC_26_8_1_2_8_1, TC_26_8_1_2_8_4, TC_26_8_1_3_2_1, TC_26_8_1_3_4_8, TC_26_8_1_3_5_3, TC_26_8_3.</p> <p>TSPX_BscSvcB controls the test cases: TC_26_8_1_2_2_2, TC_26_8_1_2_3_1, TC_26_8_1_2_3_5, TC_26_8_1_2_5_3, TC_26_8_1_2_8_2, TC_26_8_1_3_3_1, TC_26_8_1_3_5_4, TC_26_8_1_3_5_7.</p> <p>TSPX_BscSvcC controls the test cases: TC_26_8_1_2_2_3, TC_26_8_1_2_3_2, TC_26_8_1_2_3_6, TC_26_8_1_2_5_4, TC_26_8_1_2_9_4, TC_26_8_1_3_3_3, TC_26_8_1_3_5_5, TC_26_8_1_3_5_9, TC_26_8_1_4_3_1.</p> <p>TSPX_BscSvcD controls the test cases: TC_26_8_1_2_3_3, TC_26_8_1_2_3_7, TC_26_8_1_2_4_11, TC_26_8_1_2_5_5, TC_26_8_1_2_9_5, TC_26_8_1_3_3_2, TC_26_8_1_3_3_4, TC_26_8_1_3_5_6, TC_26_8_1_4_2_1.</p> <p>TSPX_BscSvcE controls the test cases: TC_26_8_1_2_4_1, TC_26_8_1_2_4_8, TC_26_8_1_2_4_10, TC_26_8_1_2_4_12, TC_26_8_1_2_5_6, TC_26_8_1_2_5_8, TC_26_8_1_3_3_5, TC_26_8_1_3_4_1, TC_26_8_1_3_5_8, TC_26_8_1_4_3_2.</p> |              |           |       |

TSPX\_BscSvcF controls the test cases: TC\_26\_8\_1\_2\_4\_2, TC\_26\_8\_1\_2\_4\_9, TC\_26\_8\_1\_2\_4\_13, TC\_26\_8\_1\_2\_5\_1, TC\_26\_8\_1\_2\_6\_3, TC\_26\_8\_1\_2\_7\_4, TC\_26\_8\_1\_3\_3\_6, TC\_26\_8\_1\_3\_4\_2, TC\_26\_8\_1\_4\_4\_1.

TSPX\_BscSvcG controls the test cases: TC\_26\_8\_1\_2\_4\_3, TC\_26\_8\_1\_2\_5\_2, TC\_26\_8\_1\_2\_5\_7, TC\_26\_8\_1\_2\_6\_4, TC\_26\_8\_1\_2\_7\_5, TC\_26\_8\_1\_3\_3\_7, TC\_26\_8\_1\_3\_4\_6.

TSPX\_BscSvcH controls the test cases: TC\_26\_8\_1\_2\_4\_4, TC\_26\_8\_1\_2\_6\_1, TC\_26\_8\_1\_2\_6\_5, TC\_26\_8\_1\_2\_7\_1, TC\_26\_8\_1\_2\_9\_1, TC\_26\_8\_1\_3\_4\_3, TC\_26\_8\_1\_3\_4\_7.

TSPX\_BscSvcI controls the test cases: TC\_26\_8\_1\_2\_4\_5, TC\_26\_8\_1\_2\_6\_2, TC\_26\_8\_1\_2\_7\_2, TC\_26\_8\_1\_2\_8\_3, TC\_26\_8\_1\_2\_9\_2, TC\_26\_8\_1\_3\_4\_4, TC\_26\_8\_1\_3\_5\_1.

TSPX\_BscSvcJ controls the test cases: TC\_26\_8\_1\_2\_4\_6, TC\_26\_8\_1\_2\_6\_6, TC\_26\_8\_1\_2\_7\_3, TC\_26\_8\_1\_2\_9\_3, TC\_26\_8\_1\_3\_4\_5, TC\_26\_8\_1\_4\_5\_2.

#### B.7.2.4 Test Case related Parameters

##### B.7.2.4.1 Parameters for extended assignment test

In the extended assignment test (TC\_26\_1\_2), the following 6 parameters are arbitrarily chosen but controllable:

- TSPX\_nPara: indicates the n'th CHANNEL REQUEST after which the test system sends IMMEDIATE ASSIGNMENT EXTENDED message in first part of the test case.

- TSPX\_i1Para: indicates the i'th CHANNEL REQUEST within the last 3 CHANNEL REQUEST's which are received before the IMMEDIATE ASSIGNMENT EXTENDED.

- TSPX\_kPara: indicates the k'th CHANNEL REQUEST after which the test system sends IMMEDIATE ASSIGNMENT EXTENDED message in second part of the test case.

- TSPX\_i2Para: indicates the i'th CHANNEL REQUEST which is not within the last 3 CHANNEL REQUEST's which are received before the IMMEDIATE ASSIGNMENT EXTENDED.

- TSPX\_rPara: indicates the r'th CHANNEL REQUEST after which the test system sends IMMEDIATE ASSIGNMENT EXTENDED message in third part of the test case.

- TSPX\_i3Para: indicates the i'th CHANNEL REQUEST within the last 3 CHANNEL REQUEST's which are received before the IMMEDIATE ASSIGNMENT EXTENDED.

**Table 59: Parameters for Extended assignment test**

| Item | Name        | Type    | value | allowed range                                |
|------|-------------|---------|-------|----------------------------------------------|
| 1    | TSPX_nPara  | INTEGER |       | (1 .. 8)                                     |
| 2    | TSPX_i1Para | INTEGER |       | (max(1,TSPX_nPara-2) .. TSPX_nPara)          |
| 3    | TSPX_kPara  | INTEGER |       | (4 .. 8)                                     |
| 4    | TSPX_i2Para | INTEGER |       | (1 .. (TSPX_kPara - 3))                      |
| 5    | TSPX_rPara  | INTEGER |       | (4 .. 8)                                     |
| 6    | TSPX_i3Para | INTEGER |       | (TSPX_rPara - 2, TSPX_rPara - 1, TSPX_rPara) |

References: Used in the test case TC\_26\_1\_2,

##### B.7.2.4.2 Parameters for assignment rejection test

In the assignment rejection test (TC\_26\_1\_3), the following 3 parameters are arbitrarily chosen but controllable:

- TSPX\_n1Para: indicates the n'th CHANNEL REQUEST after which the test system sends IMMEDIATE ASSIGNMENT EXTENDED message.

- TSPX\_i4Para: indicates the i'th CHANNEL REQUEST within the last 3 CHANNEL REQUEST's which are received before the IMMEDIATE ASSIGNMENT EXTENDED.

- TSPX\_xPara: indicates the value of wait indication (T3122).

**Table 60: Parameters for assignment rejection test**

| Item | Name        | Type    | value | allowed range                         |
|------|-------------|---------|-------|---------------------------------------|
| 1    | TSPX_n1Para | INTEGER |       | (1 .. 8)                              |
| 2    | TSPX_i4Para | INTEGER |       | (max(1,TSPX_n1Para-2) .. TSPX_n1Para) |
| 3    | TSPX_xPara  | INTEGER |       | (5 .. 255)                            |

References: Used in the test case TC\_26\_1\_3,

#### B.7.2.4.3 Parameters for paging re-organization test 1

In the paging re-organization test 1 (TC\_26\_2\_3\_1), the following 3 parameters are arbitrarily chosen but controllable:

- TSPX\_AGBLKS1: indicates the value of BS-AG-BLKS-RES.

- TSPX\_PAMFRMS1: indicates the value of BS-PA-MFRMS.

- TSPX\_PgSubch: indicates the paging subchannel.

**Table 61: Parameters for paging re-organization test 1**

| Item | Name          | Type    | value | allowed range |
|------|---------------|---------|-------|---------------|
| 1    | TSPX_AGBLKS1  | INTEGER |       | (0 .. 7)      |
| 2    | TSPX_PAMFRMS1 | INTEGER |       | (2 .. 8)      |
| 3    | TSPX_PgSubch  | INTEGER |       | (0 .. N)      |

References: Used in the test case TC\_26\_2\_3\_1,

NOTE: The value of N in the above table = (9 - TSPX\_AGBLKS1) \* TSPX\_PAMFRMS1 - 1

#### B.7.2.4.4 Parameters for paging re-organization test 2

In the paging re-organization test 2 (TC\_26\_2\_3\_2), the following 3 parameters are arbitrarily chosen but controllable:

- TSPX\_AGBLKS2: indicates the value of BS-AG-BLKS-RES.

- TSPX\_PAMFRMS2: indicates the value of BS-PA-MFRMS.

- TSPX\_CcchConf2: indicates the configuration of CCCH channel.

**Table 62: Parameters for paging re-organization test 2**

| Item | Name           | Type      | value | allowed range                            |
|------|----------------|-----------|-------|------------------------------------------|
| 1    | TSPX_AGBLKS2   | INTEGER   |       | (1 .. 2) or (1 .. 7)                     |
| 2    | TSPX_PAMFRMS2  | INTEGER   |       | (2 .. 9)                                 |
| 3    | TSPX_CcchConf2 | BITSTRING |       | ('000'B, '001'B, '010'B, '100'B, '110'B) |

References: Used in the test case TC\_26\_2\_3\_2,

NOTE: The allowed range for TSPX\_AGBLKS2 is (1 .. 2) if the TSPX\_CcchConf2 is '001'B, otherwise is (1 .. 7).

#### B.7.2.4.5 Parameters for paging as before test

In the paging re-organization test 2 (TC\_26\_2\_4), the following 3 parameters are arbitrarily chosen but controllable:

- TSPX\_AGBLKS3: indicates the value of BS-AG-BLKS-RES.
- TSPX\_PAMFRMS3: indicates the value of BS-PA-MFRMS.
- TSPX\_CcchConf3: indicates the configuration of CCCH channel.

**Table 63: Parameters for paging as before test**

| Item | Name           | Type      | value | allowed range                            |
|------|----------------|-----------|-------|------------------------------------------|
| 1    | TSPX_AGBLKS3   | INTEGER   |       | (0 .. 2) or (0 .. 7)                     |
| 2    | TSPX_PAMFRMS3  | INTEGER   |       | (2 .. 9)                                 |
| 3    | TSPX_CcchConf3 | BITSTRING |       | ('000'B, '001'B, '010'B, '100'B, '110'B) |

References: Used in the test case TC\_26\_2\_4,

NOTE: The allowed range for TSPX\_AGBLKS3 is (0 .. 2) if the TSPX\_CcchConf3 is '001'B, otherwise is (0 .. 7).

#### B.7.2.4.6 Parameters for paging multi CCCH test

In the paging re-organization test 2 (TC\_26\_2\_5), the following 3 parameters are arbitrarily chosen but controllable:

- TSPX\_AGBLKS4: indicates the value of BS-AG-BLKS-RES.
- TSPX\_PAMFRMS4: indicates the value of BS-PA-MFRMS.
- TSPX\_CcchConf4: indicates the configuration of CCCH channel.

**Table 64: Parameters for paging multi CCCH test**

| Item | Name           | Type      | value | allowed range            |
|------|----------------|-----------|-------|--------------------------|
| 1    | TSPX_AGBLKS4   | INTEGER   |       | (0 .. 7)                 |
| 2    | TSPX_PAMFRMS4  | INTEGER   |       | (2 .. 9)                 |
| 3    | TSPX_CcchConf4 | BITSTRING |       | ('010'B, '100'B, '110'B) |

References: Used in the test case TC\_26\_2\_5,

#### B.7.2.4.7 Parameters for pre-synch handover no TA test

In the pre-synch handover without TA test (TC\_26\_6\_5\_5\_1), it is required the BCCH of cell A is k bit periods before the BCCH of cell B. the k is arbitrarily chosen but controllable. The parameter TSPX\_k1 represents the timing difference k. TSPX\_k1 is in unit bit.

**Table 65: Parameters for pre-synch handover no TA test**

| Item | Name    | Type    | value |
|------|---------|---------|-------|
| 1    | TSPX_k1 | INTEGER |       |

References: Used in the test case TC\_26\_6\_5\_5\_1,

#### B.7.2.4.8 Parameters for pre-synch handover with TA test

In the pre-synch handover with TA test (TC\_26\_6\_5\_5\_2), the following 2 parameters are arbitrarily chosen but controllable:

- TSPX\_k: indicates the timing difference between the BCCH of cell A and cell B.
- TSPX\_y: indicates the value of the timing advance IE used in cell A.

**Table 66: Parameters for pre-synch handover with TA test**

| Item                                             | Name   | Type    | value |
|--------------------------------------------------|--------|---------|-------|
| 1                                                | TSPX_k | INTEGER |       |
| 2                                                | TSPX_y | INTEGER |       |
| References: Used in the test case TC_26_6_5_5_2, |        |         |       |

**B.7.2.4.9 Parameters for pseudo-synch handover test**

In the pseudo-synch handover test (TC\_26\_6\_5\_6), the following 2 parameters are arbitrarily chosen but controllable:

- TSPX\_k2: indicates the timing difference between the BCCH of cell A and cell B.
- TSPX\_y2: indicates the value of the timing advance IE used in cell A.

**Table 67: Parameters for pseudo-synch handover test**

| Item                                           | Name    | Type    | value      |
|------------------------------------------------|---------|---------|------------|
| 1                                              | TSPX_k2 | INTEGER |            |
| 2                                              | TSPX_y2 | INTEGER | (11 .. 62) |
| References: Used in the test case TC_26_6_5_6, |         |         |            |

**B.7.2.4.10 Parameters for non-synch handover test**

In the non-synch handover test (TC\_26\_6\_5\_7) the following 2 parameters are arbitrarily chosen but controllable:

- TSPX\_k3: indicates the timing difference between the BCCH of cell A and cell B, the unit of it is bit.
- TSPX\_y3: indicates the value of the timing advance IE used in cell A.

**Table 68: Parameters for non-synch handover test**

| Item                                           | Name    | Type    | value |
|------------------------------------------------|---------|---------|-------|
| 1                                              | TSPX_k3 | INTEGER |       |
| 2                                              | TSPX_y3 | INTEGER |       |
| References: Used in the test case TC_26_6_5_7, |         |         |       |

**B.7.2.4.11 Parameters for TC\_26\_6\_4\_1**

In TC\_26\_6\_4\_1, it is required to assign a full rate traffic channel with a channel mode supported by the MS. The parameter TSPX\_ChModF specifies the compatible Channel Mode information element.

**Table 69: Parameter TSPX\_ChModF**

| Parameter Name: TSPX_ChModF                        |              |             |              |
|----------------------------------------------------|--------------|-------------|--------------|
| Field                                              | Type         | Value       | Comments     |
| iei                                                | BITSTRING[8] | '01100011'B |              |
| mode                                               | BITSTRING[8] |             | channel mode |
| References:<br>TSPX_ChModF is used in: TC_26_6_4_1 |              |             |              |

In TC\_26\_6\_4\_1, it is also required to assign a half rate traffic channel with a channel mode supported by the MS. The parameter TSPX\_ChModH specifies the compatible Channel Mode information element. If the MS does not support half rate channel, this table is skipped.

**Table 70: Parameter TSPX\_ChModH**

| Parameter Name: TSPX_ChModH                        |              |             |              |
|----------------------------------------------------|--------------|-------------|--------------|
| Field                                              | Type         | Value       | Comments     |
| iei                                                | BITSTRING[8] | '01100011'B |              |
| mode                                               | BITSTRING[8] |             | channel mode |
| References:<br>TSPX_ChModF is used in: TC_26_6_4_1 |              |             |              |

**B.7.2.4.12 Parameters for TC\_26\_6\_13\_1**

In the TC\_26\_6\_13\_1, the following parameters are arbitrary and controllable:

- The hopping parameters for SDCCH8 channel used in IMMEDIATE ASSIGNMENT message,
- The channel description for the channel used in ASSIGNMENT COMMAND message after time,
- The channel description for the channel used in ASSIGNMENT COMMAND message before time.

**Table 71: Parameters for SDCCH8 of TC\_26\_6\_13\_1**

| Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Name       | Type         | value              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|--------------------|
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | TSPX_Ma1   | BITSTRING[8] | '0 0 0 0 _ _ _ 0'B |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | TSPX_Hsn1  | BITSTRING[6] | ' _ _ _ _ _ 'B     |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | TSPX_Maio1 | BITSTRING[6] | ' _ _ _ _ _ 'B     |
| References: Used in the test case TC_26_6_13_1,<br>NOTE 1: The cell allocation is ARFCNs 20, 30, 50, 70 for GSM and ARFCNs 590, 650, 750, 850 for DCS. ARFCNs 20 and 590 are the BCCH frequency for GSM and DCS respectively. The three empty positions in TSPX_Ma1 represent (from left to right) 70 (850), 50 (750) and 30 (650). The TSPX_Ma1 shall include at least one frequency.<br>NOTE 2: The TSPX_Maio1 is dependent on TSPX_Ma1. Its value is from 0 to the number of frequencies in TSPX_Ma1 - 1 |            |              |                    |



**Table 72: Parameters for ASSIGNMENT after time of TC\_26\_6\_13\_1**

| Item | Name        | Type         | value        |
|------|-------------|--------------|--------------|
| 1    | TSPX_Chtp1  | BITSTRING[5] | '0_____'B    |
| 2    | TSPX_ChMod1 | BITSTRING[8] | '000_____'B  |
| 3    | TSPX_Ma2    | BITSTRING[8] | '0000_____'B |
| 4    | TSPX_Hsn2   | BITSTRING[6] | '_____'B     |
| 5    | TSPX_Maio2  | BITSTRING[6] | '_____'B     |
| 6    | TSPX_Tm1    | INTEGER      |              |

References: Used in the test case TC\_26\_6\_13\_1,

NOTE 1: The cell allocation is ARFCNs 20, 30, 50, 70 for GSM and ARFCNs 590, 650, 750, 850 for DCS. ARFCNs 20 and 590 are the BCCH frequency for GSM and DCS respectively. The four empty positions in TSPX\_Ma2 represent ( from left to right) 70 (850), 50 (750), 30 (650) and 20 (590). The TSPX\_Ma2 shall include at least one frequency. If TSPX\_Ma2 includes only one frequency, the frequency shall not be BCCH carrier.

NOTE 2: The TSPX\_Maio2 is dependent on TSPX\_Ma2. Its value is from 0 to the number of frequencies in TSPX\_Ma2 - 1.

NOTE 3: The TSPX\_Chtp1 is channel type and TDMA offset (T bits indicates subchannel in binary):  
- '00001'B full rate traffic channel,  
- '00011'B half rate traffic channel,  
- '01TTT'B SDCCH8 channel

NOTE 4: The TSPX\_ChMod1 is the channel mode:  
- '00000000'B signalling only,  
- '00000001'B full rate speech,  
- '00000101'B half rate speech,  
- '00000011'B data 12.0 kbit/s,  
- '00001011'B data 6.0 kbit/s,  
- '00001111'B data 6.0 kbit/s,  
- '00010011'B 3.6 kbit/s,  
- '00010111'B 3.6 kbit/s.  
- The range of value of TSPX\_Tm1 is from 60 to 100.

**Table 73: Parameters for ASSIGNMENT before time of TC\_26\_6\_13\_1**

| Item | Name       | Type         | value        |
|------|------------|--------------|--------------|
| 1    | TSPX_Ma3   | BITSTRING[8] | '0000_____'B |
| 2    | TSPX_Hsn3  | BITSTRING[6] | '_____'B     |
| 3    | TSPX_Maio3 | BITSTRING[6] | '_____'B     |

References: Used in the test case TC\_26\_6\_13\_1,

NOTE1: The cell allocation is ARFCNs 20, 30, 50, 70 for GSM and ARFCNs 590, 650, 750, 850 for DCS. ARFCNs 20 and 590 are the BCCH frequency for GSM and DCS respectively. The four empty positions in TSPX\_Ma3 represent (from left to right) 70 (850), 50 (750), 30 (650) and 20 (590). The TSPX\_Ma3 shall include at least one frequency. If TSPX\_Ma3 includes only one frequency, the frequency shall not be BCCH carrier.

NOTE 2: The TSPX\_Maio3 is dependent on TSPX\_Ma3. Its value is from 0 to the number of frequencies in TSPX\_Ma3 - 1

NOTE 3: Parameters in this table shall be different from the parameters for after time.

**B.7.2.4.13 Parameters for TC\_26\_6\_13\_2**

In the TC\_26\_6\_13\_2, the following parameters are arbitrary and controllable:

- The hopping parameters for SDCCH8 channel used in IMMEDIATE ASSIGNMENT message,
- The channel description for the channel used in ASSIGNMENT COMMAND message after time,

**Table 74: Parameters for SDCCH8 of TC\_26\_6\_13\_2**

| Item | Name       | Type         | value                |
|------|------------|--------------|----------------------|
| 1    | TSPX_Ma4   | BITSTRING[8] | '0 0 0 0 _ _ _ _ 0'B |
| 2    | TSPX_Hsn4  | BITSTRING[6] | ' _ _ _ _ _ _ 'B     |
| 3    | TSPX_Maio4 | BITSTRING[6] | ' _ _ _ _ _ _ 'B     |

References: Used in the test case TC\_26\_6\_13\_2,

NOTE 1: The cell allocation is ARFCNs 20, 30, 50, 70 for GSM and ARFCNs 590, 650, 750, 850 for DCS. ARFCNs 20 and 590 are the BCCH frequency for GSM and DCS respectively. The three empty positions in TSPX\_Ma4 represent (from left to right) 70 (850), 50 (750) and 30 (650). The TSPX\_Ma4 shall include at least one frequency.

NOTE 2: The TSPX\_Maio4 is dependent on TSPX\_Ma4. Its value is from 0 to the number of frequencies in TSPX\_Ma4 - 1

**Table 75: Parameters for ASSIGNMENT after time of TC\_26\_6\_13\_2**

| Item | Name        | Type         | value               |
|------|-------------|--------------|---------------------|
| 1    | TSPX_Chtp2  | BITSTRING[5] | '0 _ _ _ _ _ 'B     |
| 2    | TSPX_ChMod2 | BITSTRING[8] | '0 0 0 _ _ _ _ _ 'B |
| 3    | TSPX_Ma5    | BITSTRING[8] | '0 0 0 0 _ _ _ _ 'B |
| 4    | TSPX_Hsn5   | BITSTRING[6] | ' _ _ _ _ _ _ 'B    |
| 5    | TSPX_Maio5  | BITSTRING[6] | ' _ _ _ _ _ _ 'B    |

References: Used in the test case TC\_26\_6\_13\_2,

NOTE 1: The cell allocation is ARFCNs 20, 30, 50, 70 for GSM and ARFCNs 590, 650, 750, 850 for DCS. ARFCNs 20 and 590 are the BCCH frequency for GSM and DCS respectively. The four empty positions in TSPX\_Ma5 represent (from left to right) 70 (850), 50 (750), 30 (650) and 20 (590). The TSPX\_Ma5 shall include at least one frequency. If TSPX\_Ma5 includes only one frequency, the frequency shall not be BCCH carrier.

NOTE 2. The TSPX\_Maio5 is dependent on TSPX\_Ma5. Its value is from 0 to the number of frequencies in TSPX\_Ma5 - 1.

NOTE 3. The TSPX\_Chtp2 is channel type and TDMA offset (T bits indicates subchannel in binary):

- '00001'B full rate traffic channel,
- '0001T'B half rate traffic channel,
- '01TTT'B SDCCH8 channel

NOTE 4. The TSPX\_ChMod2 is the channel mode:

- '00000000'B signalling only,
- '00000001'B full rate speech,
- '00000101'B half rate speech,
- '00000011'B data 12.0 kbit/s,
- '00001011'B data 6.0 kbit/s,
- '00001111'B data 6.0 kbit/s,
- '00010011'B 3.6 kbit/s,
- '00010111'B 3.6 kbit/s.

**B.7.2.4.14 Parameters for TC\_26\_6\_13\_3**

In the TC\_26\_6\_13\_3, the following parameters are arbitrary and controllable:

- The channel description for the channel used in IMMEDIATE ASSIGNMENT message,
- The channel description for the channel used in FREQUENCY REDEFINITION message,
- The channel description for the channel used in ASSIGNMENT COMMAND message after time,
- The channel description for the channel used in ASSIGNMENT COMMAND message before time.

**Table 76: Parameters for IMMEDIATE ASSIGNMENT of TC\_26\_6\_13\_3**

| Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Name       | Type         | value        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|--------------|
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | TSPX_Chtp3 | BITSTRING[5] | '0_____'B    |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | TSPX_Ma6   | BITSTRING[8] | '0000_____'B |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | TSPX_Hsn6  | BITSTRING[6] | '_____'B     |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | TSPX_Maio6 | BITSTRING[6] | '_____'B     |
| References: Used in the test case TC_26_6_13_3,<br>NOTE: 1. The cell allocation is ARFCNs 20, 30, 50, 70 for GSM and ARFCNs 590, 650, 750, 850 for DCS. ARFCNs 20 and 590 are the BCCH frequency for GSM and DCS respectively. The four empty positions in TSPX_Ma6 represent (from left to right) 70 (850), 50 (750), 30 (650) and 20 (590). The TSPX_Ma6 shall include at least one frequency.<br>NOTE 2. The TSPX_Maio6 is dependent on TSPX_Ma6. Its value is from 0 to the number of frequencies in TSPX_Ma6 - 1 |            |              |              |

**Table 77: Parameters for FREQUENCY REDEFINITION of TC\_26\_6\_13\_3**

| Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Name       | Type         | value        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|--------------|
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | TSPX_Ma7   | BITSTRING[8] | '0000_____'B |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | TSPX_Hsn7  | BITSTRING[6] | '_____'B     |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | TSPX_Maio7 | BITSTRING[6] | '_____'B     |
| References: Used in the test case TC_26_6_13_3,<br>NOTE: 1. The cell allocation is ARFCNs 20, 30, 50, 70 for GSM and ARFCNs 590, 650, 750, 850 for DCS. ARFCNs 20 and 590 are the BCCH frequency for GSM and DCS respectively. The four empty positions in TSPX_Ma7 represent (from left to right) 70 (850), 50 (750), 30 (650) and 20 (590). The TSPX_Ma7 shall include at least two frequencies.<br>NOTE 2. The TSPX_Maio7 is dependent on TSPX_Ma7. Its value is from 0 to the number of frequencies in TSPX_Ma7 - 1<br>NOTE 3. Parameters in this table shall be different from the parameters for IMMEDIATE ASSIGNMENT. |            |              |              |

**Table 78: Parameters for ASSIGNMENT after time of TC\_26\_6\_13\_3**

| Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Name       | Type         | value        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|--------------|
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TSPX_Chtp4 | BITSTRING[5] | '0_____'B    |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TSPX_Ma8   | BITSTRING[8] | '0000_____'B |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TSPX_Hsn8  | BITSTRING[6] | '_____'B     |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TSPX_Maio8 | BITSTRING[6] | '_____'B     |
| References: Used in the test case TC_26_6_13_3,<br>NOTE: 1. The cell allocation is ARFCNs 20, 30, 50, 70 for GSM and ARFCNs 590, 650, 750, 850 for DCS. ARFCNs 20 and 590 are the BCCH frequency for GSM and DCS respectively. The four empty positions in TSPX_Ma8 represent (from left to right) 70 (850), 50 (750), 30 (650) and 20 (590). The TSPX_Ma8 shall include at least two frequencies.<br>NOTE 2. The TSPX_Maio8 is dependent on TSPX_Ma8. Its value is from 0 to the number of frequencies in TSPX_Ma8 - 1.<br>NOTE 3. The TSPX_Chtp4 is channel type and TDMA offset (T bits indicates subchannel in binary):<br>- '00001'B full rate traffic channel,<br>- '0001T'B half rate traffic channel,<br>- '01TTT'B SDCCH8 channel |            |              |              |

**Table 79: Parameters for ASSIGNMENT before time of TC\_26\_6\_13\_3**

| Item | Name       | Type         | value               |
|------|------------|--------------|---------------------|
| 1    | TSPX_Ma9   | BITSTRING[8] | '0 0 0 0 _ _ _ _ 'B |
| 2    | TSPX_Hsn9  | BITSTRING[6] | ' _ _ _ _ _ _ 'B    |
| 3    | TSPX_Maio9 | BITSTRING[6] | ' _ _ _ _ _ _ 'B    |

References: Used in the test case TC\_26\_6\_13\_3,  
NOTE: 1. The cell allocation is ARFCNs 20, 30, 50, 70 for GSM and ARFCNs 590, 650, 750, 850 for DCS. ARFCNs 20 and 590 are the BCCH frequency for GSM and DCS respectively. The four empty positions in TSPX\_Ma9 represent (from left to right) 70 (850), 50 (750), 30 (650) and 20 (590). The TSPX\_Ma9 shall include at least two frequencies.  
2. The TSPX\_Maio9 is dependent on TSPX\_Ma9. Its value is from 0 to the number of frequencies in TSPX\_Ma9 - 1  
3. Parameters in this table shall be different from the parameters for after time.

**B.7.2.4.15 Parameters for TC\_26\_6\_13\_4**

In the TC\_26\_6\_13\_4, the following parameters are arbitrary and controllable:

- The channel description for the channel used in IMMEDIATE ASSIGNMENT message,
- The channel description for the channel used in FREQUENCY REDEFINITION message,
- The channel description for the channel used in ASSIGNMENT COMMAND message after time,
- The channel description for the channel used in ASSIGNMENT COMMAND message before time.

**Table 80: Parameters for IMMEDIATE ASSIGNMENT of TC\_26\_6\_13\_4**

| Item | Name        | Type         | value               |
|------|-------------|--------------|---------------------|
| 1    | TSPX_Chtp5  | BITSTRING[5] | '0 _ _ _ _ 'B       |
| 2    | TSPX_Ma10   | BITSTRING[8] | '0 0 0 0 _ _ _ _ 'B |
| 3    | TSPX_Hsn10  | BITSTRING[6] | ' _ _ _ _ _ _ 'B    |
| 4    | TSPX_Maio10 | BITSTRING[6] | ' _ _ _ _ _ _ 'B    |

References: Used in the test case TC\_26\_6\_13\_4,  
NOTE: 1. The cell allocation is ARFCNs 20, 30, 50, 70 for GSM and ARFCNs 590, 650, 750, 850 for DCS. ARFCNs 20 and 590 are the BCCH frequency for GSM and DCS respectively. The four empty positions in TSPX\_Ma10 represent (from left to right) 70 (850), 50 (750), 30 (650) and 20 (590). The TSPX\_Ma10 shall include at least one frequency. If TSPX\_Ma10 includes one frequency, the frequency shall not be BCCH carrier.  
2. The TSPX\_Maio10 is dependent on TSPX\_Ma10. Its value is from 0 to the number of frequencies in TSPX\_Ma10 - 1

**Table 81: Parameters for FREQUENCY REDEFINITION of TC\_26\_6\_13\_4**

| Item | Name        | Type         | value               |
|------|-------------|--------------|---------------------|
| 1    | TSPX_Ma11   | BITSTRING[8] | '0 0 0 0 _ _ _ _ 'B |
| 2    | TSPX_Hsn11  | BITSTRING[6] | ' _ _ _ _ _ _ 'B    |
| 3    | TSPX_Maio11 | BITSTRING[6] | ' _ _ _ _ _ _ 'B    |

References: Used in the test case TC\_26\_6\_13\_4,  
NOTE: 1. The cell allocation is ARFCNs 20, 30, 50, 70 for GSM and ARFCNs 590, 650, 750, 850 for DCS. ARFCNs 20 and 590 are the BCCH frequency for GSM and DCS respectively. The four empty positions in TSPX\_Ma11 represent (from left to right) 70 (850), 50 (750), 30 (650) and 20 (590). The TSPX\_Ma11 shall include at least two frequencies.  
2. The TSPX\_Maio11 is dependent on TSPX\_Ma11. Its value is from 0 to the number of frequencies in TSPX\_Ma11  
3. Parameters in this table shall be different from the parameters for IMMEDIATE ASSIGNMENT.

**Table 82: Parameters for ASSIGNMENT after time of TC\_26\_6\_13\_4**

| Item | Name        | Type         | value           |
|------|-------------|--------------|-----------------|
| 1    | TSPX_Chtp6  | BITSTRING[5] | '0 ____'B       |
| 2    | TSPX_Ma12   | BITSTRING[8] | '0 0 0 0 ____'B |
| 3    | TSPX_Hsn12  | BITSTRING[6] | '_____'B        |
| 4    | TSPX_Maio12 | BITSTRING[6] | '_____'B        |

References: Used in the test case TC\_26\_6\_13\_4,  
NOTE: 1. The cell allocation is ARFCNs 20, 30, 50, 70 for GSM and ARFCNs 590, 650, 750, 850 for DCS. ARFCNs 20 and 590 are the BCCH frequency for GSM and DCS respectively. The four empty positions in TSPX\_Ma12 represent (from left to right) 70 (850), 50 (750), 30 (650) and 20 (590). The TSPX\_Ma12 shall include at least two frequencies.  
2. The TSPX\_Maio12 is dependent on TSPX\_Ma12. Its value is from 0 to the number of frequencies in TSPX\_Ma12 - 1.  
3. The TSPX\_Chtp6 is channel type and TDMA offset (T bits indicates subchannel in binary):  
- '00001'B full rate traffic channel,  
- '0001T'B half rate traffic channel,  
- '01TTT'B SDCCH8 channel

**Table 83: Parameters for ASSIGNMENT before time of TC\_26\_6\_13\_4**

| Item | Name        | Type         | value           |
|------|-------------|--------------|-----------------|
| 1    | TSPX_Ma13   | BITSTRING[8] | '0 0 0 0 ____'B |
| 2    | TSPX_Hsn13  | BITSTRING[6] | '_____'B        |
| 3    | TSPX_Maio13 | BITSTRING[6] | '_____'B        |

References: Used in the test case TC\_26\_6\_13\_4,  
NOTE: 1. The cell allocation is ARFCNs 20, 30, 50, 70 for GSM and ARFCNs 590, 650, 750, 850 for DCS. ARFCNs 20 and 590 are the BCCH frequency for GSM and DCS respectively. The four empty positions in TSPX\_Ma13 represent (from left to right) 70 (850), 50 (750), 30 (650) and 20 (590). The TSPX\_Ma13 shall include at least two frequencies.  
2. The TSPX\_Maio13 is dependent on TSPX\_Ma13. Its value is from 0 to the number of frequencies in TSPX\_Ma13 - 1  
3. Parameters in this table shall be different from the parameters for after time.

**B.7.2.4.16 Parameters for TC\_26\_6\_13\_5**

In the TC\_26\_6\_13\_5, the following parameters are arbitrary and controllable:

- The hopping parameters for SDCCH8 channel used in IMMEDIATE ASSIGNMENT message,
- The channel description for the channel used in HANDOVER COMMAND message after time,
- The channel description for the channel used in HANDOVER COMMAND message before time.

**Table 84: Parameters for SDCCH8 of TC\_26\_6\_13\_5**

| Item | Name        | Type         | value           |
|------|-------------|--------------|-----------------|
| 1    | TSPX_Ma14   | BITSTRING[8] | '0 0 0 0 ____'B |
| 2    | TSPX_Hsn14  | BITSTRING[6] | '_____'B        |
| 3    | TSPX_Maio14 | BITSTRING[6] | '_____'B        |

References: Used in the test case TC\_26\_6\_13\_5,  
NOTE: 1. The cell allocation is ARFCNs 20, 30, 50, 70 for GSM and ARFCNs 590, 650, 750, 850 for DCS. ARFCNs 20 and 590 are the BCCH frequency for GSM and DCS respectively. The three empty positions in TSPX\_Ma14 represent (from left to right) 70 (850), 50 (750), 30 (650) and 20 (590). The TSPX\_Ma14 shall include at least one frequency.  
2. The TSPX\_Maio14 is dependent on TSPX\_Ma14. Its value is from 0 to the number of frequencies in TSPX\_Ma14 - 1

Table 85: Parameters for HANDOVER after time of TC\_26\_6\_13\_5

| Item | Name        | Type         | value        |
|------|-------------|--------------|--------------|
| 1    | TSPX_Chtp7  | BITSTRING[5] | '0_____'B    |
| 2    | TSPX_ChMod4 | BITSTRING[8] | '000_____'B  |
| 3    | TSPX_Ma15   | BITSTRING[8] | '0000_____'B |
| 4    | TSPX_Hsn15  | BITSTRING[6] | '_____'B     |
| 5    | TSPX_Maio15 | BITSTRING[6] | '_____'B     |
| 6    | TSPX_Tm2    | INTEGER      |              |

References: Used in the test case TC\_26\_6\_13\_5,  
NOTE:

- The cell allocation is ARFCNs 10, 80, 100, 120 for GSM and ARFCNs 520, 600, 700, 870 for DCS. ARFCNs 10 and 520 are the BCCH frequency for GSM and DCS respectively. The four empty positions in TSPX\_Ma15 represent (from left to right) 120 (870), 100 (700), 80 (600) and 10 (520). The TSPX\_Ma15 shall include at least one frequency. If TSPX\_Ma15 includes only one frequency, the frequency shall not be BCCH carrier.
- The TSPX\_Maio15 is dependent on TSPX\_Ma15. Its value is from 0 to the number of frequencies in TSPX\_Ma15 - 1.
- The TSPX\_Chtp7 is channel type and TDMA offset (T bits indicates subchannel in binary):
  - '00001'B full rate traffic channel,
  - '0001T'B half rate traffic channel,
  - '01TTT'B SDCCH8 channel
- The TSPX\_ChMod4 is the channel mode:
  - '00000000'B signalling only,
  - '00000001'B full rate speech,
  - '00000101'B half rate speech,
  - '00000011'B data 12.0 kbit/s,
  - '00001011'B data 6.0 kbit/s,
  - '00001111'B data 6.0 kbit/s,
  - '00010011'B 3.6 kbit/s,
  - '00010111'B 3.6 kbit/s.

- The range of value of TSPX\_Tm2 is from 60 to 100.

Table 86: Parameters for HANDOVER before time of TC\_26\_6\_13\_5

| Item | Name        | Type         | value        |
|------|-------------|--------------|--------------|
| 1    | TSPX_Ma16   | BITSTRING[8] | '0000_____'B |
| 2    | TSPX_Hsn16  | BITSTRING[6] | '_____'B     |
| 3    | TSPX_Maio16 | BITSTRING[6] | '_____'B     |

References: Used in the test case TC\_26\_6\_13\_5,  
NOTE:

- The cell allocation is ARFCNs 10, 80, 100, 120 for GSM and ARFCNs 520, 600, 700, 870 for DCS. ARFCNs 10 and 520 are the BCCH frequency for GSM and DCS respectively. The four empty positions in TSPX\_Ma16 represent (from left to right) 120 (870), 100 (700), 80 (600) and 10 (520). The TSPX\_Ma16 shall include at least one frequency. If TSPX\_Ma16 includes only one frequency, the frequency shall not be BCCH carrier.
- The TSPX\_Maio16 is dependent on TSPX\_Ma16. Its value is from 0 to the number of frequencies in TSPX\_Ma16 - 1
- Parameters in this table shall be different from the parameters for after time.

#### B.7.2.4.17 Parameters for TC\_26\_6\_13\_6

In the TC\_26\_6\_13\_6, the following parameters are arbitrary and controllable:

- The hopping parameters for SDCCH8 channel used in IMMEDIATE ASSIGNMENT message,
- The channel description for the channel used in HANDOVER COMMAND message after time,
- The channel description for the channel used in HANDOVER COMMAND message before time.

Table 87: Parameters for SDCCH8 of TC\_26\_6\_13\_6

| Item | Name        | Type         | value              |
|------|-------------|--------------|--------------------|
| 1    | TSPX_Ma17   | BITSTRING[8] | '0 0 0 0 _ _ _ _'B |
| 2    | TSPX_Hsn17  | BITSTRING[6] | '_ _ _ _ _ _'B     |
| 3    | TSPX_Maio17 | BITSTRING[6] | '_ _ _ _ _ _'B     |

References: Used in the test case TC\_26\_6\_13\_6,  
NOTE: 1. The cell allocation is ARFCNs 10, 80, 100, 120 for GSM and ARFCNs 520, 600, 700, 870 for DCS. ARFCNs 10 and 520 are the BCCH frequency for GSM and DCS respectively. The four empty positions in TSPX\_Ma17 represent (from left to right) 120 (870), 100 (700), 80 (600) and 10 (520). The TSPX\_Ma17 shall include at least one frequency. If TSPX\_Ma17 includes only one frequency, the frequency shall not be BCCH carrier.  
2. The TSPX\_Maio17 is dependent on TSPX\_Ma17. Its value is from 0 to the number of frequencies in TSPX\_Ma17 - 1

Table 88: Parameters for HANDOVER after time of TC\_26\_6\_13\_6

| Item | Name        | Type         | value              |
|------|-------------|--------------|--------------------|
| 1    | TSPX_Chtp8  | BITSTRING[5] | '0 _ _ _ _'B       |
| 2    | TSPX_ChMod5 | BITSTRING[8] | '0 0 0 _ _ _ _ _'B |
| 3    | TSPX_Ma18   | BITSTRING[8] | '0 0 0 0 _ _ _ _'B |
| 4    | TSPX_Hsn18  | BITSTRING[6] | '_ _ _ _ _ _'B     |
| 5    | TSPX_Maio18 | BITSTRING[6] | '_ _ _ _ _ _'B     |

References: Used in the test case TC\_26\_6\_13\_6,  
NOTE: 11. The cell allocation is ARFCNs 10, 80, 100, 120 for GSM and ARFCNs 520, 600, 700, 870 for DCS. ARFCNs 10 and 520 are the BCCH frequency for GSM and DCS respectively. The four empty positions in TSPX\_Ma18 represent (from left to right) 120 (870), 100 (700), 80 (600) and 10 (520). The TSPX\_Ma18 shall include at least one frequency. If TSPX\_Ma18 includes only one frequency, the frequency shall not be BCCH carrier.  
2. The TSPX\_Maio18 is dependent on TSPX\_Ma18. Its value is from 0 to the number of frequencies in TSPX\_Ma18 - 1.  
3. The TSPX\_Chtp8 is channel type and TDMA offset (T bits indicates subchannel in binary):  
- '00001'B full rate traffic channel,  
- '00011'B half rate traffic channel,  
- '01111'B SDCCH8 channel  
4. The TSPX\_ChMod5 is the channel mode:  
- '00000000'B signalling only,  
- '00000001'B full rate speech,  
- '00000101'B half rate speech,  
- '00000111'B data 12.0 kbit/s,  
- '00001011'B data 6.0 kbit/s,  
- '00001111'B data 6.0 kbit/s,  
- '00010011'B 3.6 kbit/s,  
- '00010111'B 3.6 kbit/s.

**Table 89: Parameters for HANDOVER before time of TC\_26\_6\_13\_6**

| Item | Name        | Type         | value              |
|------|-------------|--------------|--------------------|
| 1    | TSPX_Ma19   | BITSTRING[8] | '0 0 0 0 _ _ _ _'B |
| 2    | TSPX_Hsn19  | BITSTRING[6] | '_ _ _ _ _ _'B     |
| 3    | TSPX_Maio19 | BITSTRING[6] | '_ _ _ _ _ _'B     |

References: Used in the test case TC\_26\_6\_13\_6,  
NOTE:

1. The cell allocation is ARFCNs 20, 30, 50, 70 for GSM and ARFCNs 590, 650, 750, 850 for DCS. ARFCNs 20 and 590 are the BCCH frequency for GSM and DCS respectively. The four empty positions in TSPX\_Ma19 represent (from left to right) 70 (850), 50 (750), 30 (650) and 20 (590). The TSPX\_Ma19 shall include at least one frequency. If TSPX\_Ma19 includes only one frequency, the frequency shall not be BCCH carrier.
2. The TSPX\_Maio19 is dependent on TSPX\_Ma19. Its value is from 0 to the number of frequencies in TSPX\_Ma19 - 1
3. Parameters in this table shall be different from the parameters for after time.

**B.7.2.4.18 Parameters for TC\_26\_6\_13\_7**

In the TC\_26\_6\_13\_7, the following parameters are arbitrary and controllable:

- The hopping parameters for the channel used in IMMEDIATE ASSIGNMENT message,
- The hopping parameters for FREQUENCY REDEFINITION message,
- The channel description for the channel used in HANDOVER COMMAND message after time,
- The channel description for the channel used in HANDOVER COMMAND message before time.

**Table 90: Parameters for IMMEDIATE ASSIGNMENT of TC\_26\_6\_13\_7**

| Item | Name        | Type         | value              |
|------|-------------|--------------|--------------------|
| 1    | TSPX_Chtp9  | BITSTRING[5] | '0 _ _ _ _'B       |
| 2    | TSPX_Ma20   | BITSTRING[8] | '0 0 0 0 _ _ _ _'B |
| 3    | TSPX_Hsn20  | BITSTRING[6] | '_ _ _ _ _ _'B     |
| 4    | TSPX_Maio20 | BITSTRING[6] | '_ _ _ _ _ _'B     |

References: Used in the test case TC\_26\_6\_13\_7,  
NOTE:

1. The cell allocation is ARFCNs 10, 80, 100, 120 for GSM and ARFCNs 520, 600, 700, 870 for DCS. ARFCNs 10 and 520 are the BCCH frequency for GSM and DCS respectively. The four empty positions in TSPX\_Ma20 represent (from left to right) 120 (870), 100 (700), 80 (600) and 10 (520). The TSPX\_Ma20 shall include at least one frequency. If TSPX\_Ma20 includes only one frequency, the frequency shall not be BCCH carrier.
2. The TSPX\_Maio20 is dependent on TSPX\_Ma20. Its value is from 0 to the number of frequencies in TSPX\_Ma20 - 1



**Table 91: Parameters for FREQUENCY REDEFINITION of TC\_26\_6\_13\_7**

| Item | Name        | Type         | value              |
|------|-------------|--------------|--------------------|
| 1    | TSPX_Ma21   | BITSTRING[8] | '0 0 0 0 _ _ _ _'B |
| 2    | TSPX_Hsn21  | BITSTRING[6] | '_ _ _ _ _ _'B     |
| 3    | TSPX_Maio21 | BITSTRING[6] | '_ _ _ _ _ _'B     |

References: Used in the test case TC\_26\_6\_13\_7,  
NOTE:

- The cell allocation is ARFCNs 10, 80, 100, 120 for GSM and ARFCNs 520, 600, 700, 870 for DCS. ARFCNs 10 and 520 are the BCCH frequency for GSM and DCS respectively. The four empty positions in TSPX\_Ma21 represent (from left to right) 120 (870), 100 (700), 80 (600) and 10 (520). The TSPX\_Ma21 shall include at least two frequencies.
- The TSPX\_Maio21 is dependent on TSPX\_Ma21. Its value is from 0 to the number of frequencies in TSPX\_Ma21 - 1.
- Parameters in this table shall be different from the parameters in the above table.

**Table 92: Parameters for HANDOVER after time of TC\_26\_6\_13\_7**

| Item | Name        | Type         | value              |
|------|-------------|--------------|--------------------|
| 1    | TSPX_Chtp10 | BITSTRING[5] | '0 _ _ _ _'B       |
| 2    | TSPX_ChMod6 | BITSTRING[8] | '0 0 0 _ _ _ _ _'B |
| 3    | TSPX_Ma22   | BITSTRING[8] | '0 0 0 0 _ _ _ _'B |
| 4    | TSPX_Hsn22  | BITSTRING[6] | '_ _ _ _ _ _'B     |
| 5    | TSPX_Maio22 | BITSTRING[6] | '_ _ _ _ _ _'B     |

References: Used in the test case TC\_26\_6\_13\_7,  
NOTE:

- The cell allocation is ARFCNs 10, 80, 100, 120 for GSM and ARFCNs 520, 600, 700, 870 for DCS. ARFCNs 10 and 520 are the BCCH frequency for GSM and DCS respectively. The four empty positions in TSPX\_Ma22 represent (from left to right) 120 (870), 100 (700), 80 (600) and 10 (520). The TSPX\_Ma22 shall include at least one frequency. If TSPX\_Ma22 includes only one frequency, the frequency shall not be BCCH carrier.
- The TSPX\_Maio22 is dependent on TSPX\_Ma22. Its value is from 0 to the number of frequencies in TSPX\_Ma22 - 1.
- The TSPX\_Chtp10 is channel type and TDMA offset (T bits indicates subchannel in binary):
  - '00001'B full rate traffic channel,
  - '0001T'B half rate traffic channel,
  - '01TTT'B SDCCH8 channel
- The TSPX\_ChMod6 is the channel mode:
  - '00000000'B signalling only,
  - '00000001'B full rate speech,
  - '00000101'B half rate speech,
  - '00000011'B data 12.0 kbit/s,
  - '00001011'B data 6.0 kbit/s,
  - '00001111'B data 6.0 kbit/s,
  - '00010011'B 3.6 kbit/s,
  - '00010111'B 3.6 kbit/s.

**Table 93: Parameters for HANDOVER before time of TC\_26\_6\_13\_7**

| Item | Name        | Type         | value              |
|------|-------------|--------------|--------------------|
| 1    | TSPX_Ma23   | BITSTRING[8] | '0 0 0 0 _ _ _ _'B |
| 2    | TSPX_Hsn23  | BITSTRING[6] | '_ _ _ _ _ _'B     |
| 3    | TSPX_Maio23 | BITSTRING[6] | '_ _ _ _ _ _'B     |

References: Used in the test case TC\_26\_6\_13\_7,  
NOTE:

1. The cell allocation is ARFCNs 20, 30, 50, 70 for GSM and ARFCNs 590, 650, 750, 850 for DCS. ARFCNs 20 and 590 are the BCCH frequency for GSM and DCS respectively. The four empty positions in TSPX\_Ma23 represent (from left to right) 70 (850), 50 (750), 30 (650) and 20 (590). The TSPX\_Ma23 shall include at least one frequency. If TSPX\_Ma23 includes only one frequency, the frequency shall not be BCCH carrier.
2. The TSPX\_Maio23 is dependent on TSPX\_Ma23. Its value is from 0 to the number of frequencies in TSPX\_Ma23 - 1
3. Parameters in this table shall be different from the parameters for after time.

**B.7.2.4.19 Parameters for TC\_26\_6\_13\_8**

In the TC\_26\_6\_13\_8, the following parameters are arbitrary and controllable:

- The hopping parameters for the channel used in IMMEDIATE ASSIGNMENT message,
- The hopping parameters for FREQUENCY REDEFINITION message,
- The channel description for the channel used in HANDOVER COMMAND message after time,
- The channel description for the channel used in HANDOVER COMMAND message before time.

**Table 94: Parameters for IMMEDIATE ASSIGNMENT of TC\_26\_6\_13\_8**

| Item | Name        | Type         | value              |
|------|-------------|--------------|--------------------|
| 1    | TSPX_Chtp11 | BITSTRING[5] | '0 _ _ _ _'B       |
| 2    | TSPX_Ma24   | BITSTRING[8] | '0 0 0 0 _ _ _ _'B |
| 3    | TSPX_Hsn24  | BITSTRING[6] | '_ _ _ _ _ _'B     |
| 4    | TSPX_Maio24 | BITSTRING[6] | '_ _ _ _ _ _'B     |

References: Used in the test case TC\_26\_6\_13\_8,  
NOTE:

1. The cell allocation is ARFCNs 10, 80, 100, 120 for GSM and ARFCNs 520, 600, 700, 870 for DCS. ARFCNs 10 and 520 are the BCCH frequency for GSM and DCS respectively. The four empty positions in TSPX\_Ma24 represent (from left to right) 120 (870), 100 (700), 80 (600) and 10 (520). The TSPX\_Ma24 shall include at least one frequency. If TSPX\_Ma24 includes only one frequency, the frequency shall not be BCCH carrier.
2. The TSPX\_Maio24 is dependent on TSPX\_Ma24. Its value is from 0 to the number of frequencies in TSPX\_Ma24 - 1

**Table 95: Parameters for FREQUENCY REDEFINITION of TC\_26\_6\_13\_8**

| Item | Name        | Type         | value              |
|------|-------------|--------------|--------------------|
| 1    | TSPX_Ma25   | BITSTRING[8] | '0 0 0 0 _ _ _ _'B |
| 2    | TSPX_Hsn25  | BITSTRING[6] | '_ _ _ _ _ _'B     |
| 3    | TSPX_Maio25 | BITSTRING[6] | '_ _ _ _ _ _'B     |

References: Used in the test case TC\_26\_6\_13\_8,  
NOTE:

1. The cell allocation is ARFCNs 10, 80, 100, 120 for GSM and ARFCNs 520, 600, 700, 870 for DCS. ARFCNs 10 and 520 are the BCCH frequency for GSM and DCS respectively. The four empty positions in TSPX\_Ma25 represent (from left to right) 120 (870), 100 (700), 80 (600) and 10 (520). The TSPX\_Ma25 shall include at least two frequencies.
2. The TSPX\_Maio25 is dependent on TSPX\_Ma25. Its value is from 0 to the number of frequencies in TSPX\_Ma25 - 1.
3. Parameters in this table shall be different from the parameters in the above table.

**Table 96: Parameters for HANDOVER after time of TC\_26\_6\_13\_8**

| Item | Name        | Type         | value              |
|------|-------------|--------------|--------------------|
| 1    | TSPX_Chtp12 | BITSTRING[5] | '0 _ _ _ _'B       |
| 2    | TSPX_ChMod7 | BITSTRING[8] | '0 0 0 _ _ _ _ _'B |
| 3    | TSPX_Ma26   | BITSTRING[8] | '0 0 0 0 _ _ _ _'B |
| 4    | TSPX_Hsn26  | BITSTRING[6] | '_ _ _ _ _ _'B     |
| 5    | TSPX_Maio26 | BITSTRING[6] | '_ _ _ _ _ _'B     |

References: Used in the test case TC\_26\_6\_13\_8,  
NOTE:

1. The cell allocation is ARFCNs 10, 80, 100, 120 for GSM and ARFCNs 520, 600, 700, 870 for DCS. ARFCNs 10 and 520 are the BCCH frequency for GSM and DCS respectively. The four empty positions in TSPX\_Ma26 represent (from left to right) 120 (870), 100 (700), 80 (600) and 10 (520). The TSPX\_Ma26 shall include at least one frequency. If TSPX\_Ma26 includes only one frequency, the frequency shall not be BCCH carrier.
2. The TSPX\_Maio26 is dependent on TSPX\_Ma26. Its value is from 0 to the number of frequencies in TSPX\_Ma26 - 1.
3. The TSPX\_Chtp12 is channel type and TDMA offset (T bits indicates subchannel in binary):
  - '00001'B full rate traffic channel,
  - '0001T'B half rate traffic channel,
  - '01TTT'B SDCCH8 channel
4. The TSPX\_ChMod7 is the channel mode:
  - '00000000'B signalling only,
  - '00000001'B full rate speech,
  - '00000101'B half rate speech,
  - '00000011'B data 12.0 kbit/s,
  - '00001011'B data 6.0 kbit/s,
  - '00001111'B data 6.0 kbit/s,
  - '00010011'B 3.6 kbit/s,
  - '00010111'B 3.6 kbit/s.

**Table 97: Parameters for HANDOVER before time of TC\_26\_6\_13\_8**

| Item | Name        | Type         | value              |
|------|-------------|--------------|--------------------|
| 1    | TSPX_Ma27   | BITSTRING[8] | '0 0 0 0 _ _ _ _'B |
| 2    | TSPX_Hsn27  | BITSTRING[6] | ' _ _ _ _ _ _'B    |
| 3    | TSPX_Maio27 | BITSTRING[6] | ' _ _ _ _ _ _'B    |

References: Used in the test case TC\_26\_6\_13\_8,

NOTE:

1. The cell allocation is ARFCNs 20, 30, 50, 70 for GSM and ARFCNs 590, 650, 750, 850 for DCS. ARFCNs 20 and 590 are the BCCH frequency for GSM and DCS respectively. The four empty positions in TSPX\_Ma27 represent (from left to right) 70 (850), 50 (750), 30 (650) and 20 (590). The TSPX\_Ma27 shall include at least one frequency. If TSPX\_Ma27 includes only one frequency, the frequency shall not be BCCH carrier.
2. The TSPX\_Maio27 is dependent on TSPX\_Ma27. Its value is from 0 to the number of frequencies in TSPX\_Ma27 - 1
3. Parameters in this table shall be different from the parameters for after time.

**B.7.2.4.20 Parameters for TC\_26\_6\_13\_9**

In the TC\_26\_6\_13\_9, the following parameters are arbitrary and controllable:

- The hopping parameters for the channel used in IMMEDIATE ASSIGNMENT message after time,
- The hopping parameters for the channel used in IMMEDIATE ASSIGNMENT message before time,

**Table 98: Parameters for IMMEDIATE ASSIGNMENT after time of TC\_26\_6\_13\_9**

| Item | Name        | Type         | value              |
|------|-------------|--------------|--------------------|
| 1    | TSPX_Chtp13 | BITSTRING[5] | '0 _ _ _ _'B       |
| 2    | TSPX_Ma28   | BITSTRING[8] | '0 0 0 0 _ _ _ _'B |
| 3    | TSPX_Hsn28  | BITSTRING[6] | ' _ _ _ _ _ _'B    |
| 4    | TSPX_Maio28 | BITSTRING[6] | ' _ _ _ _ _ _'B    |

References: Used in the test case TC\_26\_6\_13\_9,

NOTE:

1. The cell allocation is ARFCNs 10, 80, 100, 120 for GSM and ARFCNs 520, 600, 700, 870 for DCS. ARFCNs 10 and 520 are the BCCH frequency for GSM and DCS respectively. The four empty positions in TSPX\_Ma28 represent (from left to right) 120 (870), 100 (700), 80 (600) and 10 (520). The TSPX\_Ma28 shall include at least one frequency. If TSPX\_Ma28 includes only one frequency, the frequency shall not be BCCH carrier.
2. The TSPX\_Maio28 is dependent on TSPX\_Ma28. Its value is from 0 to the number of frequencies in TSPX\_Ma28 - 1

**Table 99: Parameters for IMMEDIATE ASSIGNMENT before time of TC\_26\_6\_13\_9**

| Item | Name        | Type         | value              |
|------|-------------|--------------|--------------------|
| 1    | TSPX_Ma29   | BITSTRING[8] | '0 0 0 0 _ _ _ _'B |
| 2    | TSPX_Tm3    | INTEGER      |                    |
| 3    | TSPX_Maio29 | BITSTRING[6] | ' _ _ _ _ _ _'B    |

References: Used in the test case TC\_26\_6\_13\_9,  
NOTE: 1. The cell allocation is ARFCNs 10, 80, 100, 120 for GSM and ARFCNs 520, 600, 700, 870 for DCS. ARFCNs 10 and 520 are the BCCH frequency for GSM and DCS respectively. The four empty positions in TSPX\_Ma29 represent (from left to right) 120 (870), 100 (700), 80 (600) and 10 (520). The TSPX\_Ma29 shall include at least one frequency. If only one frequency to be used, the frequency shall be different from the BCCH carrier.  
2. The TSPX\_Maio29 is dependent on TSPX\_Ma29. Its value is from 0 to the number of frequencies in TSPX\_Ma29 - 1.  
3. The value range of TSPX\_Tm3 is 60 to 100.  
4. Parameters in this table shall be different from the parameters in the above table.

**B.7.2.4.21 Parameters for TC\_26\_6\_13\_10**

In the TC\_26\_6\_13\_10, the following parameters are arbitrary and controllable:

- The hopping parameters for the channel used in IMMEDIATE ASSIGNMENT message after time,
- The hopping parameters for the channel used in IMMEDIATE ASSIGNMENT message before time,

**Table 100: Parameters for IMMEDIATE ASSIGNMENT after time of TC\_26\_6\_13\_10**

| Item | Name        | Type         | value              |
|------|-------------|--------------|--------------------|
| 1    | TSPX_Chtp14 | BITSTRING[5] | '0 _ _ _ _'B       |
| 2    | TSPX_Ma30   | BITSTRING[8] | '0 0 0 0 _ _ _ _'B |
| 3    | TSPX_Hsn30  | BITSTRING[6] | ' _ _ _ _ _ _'B    |
| 4    | TSPX_Maio30 | BITSTRING[6] | ' _ _ _ _ _ _'B    |

References: Used in the test case TC\_26\_6\_13\_10,  
NOTE: 1. The cell allocation is ARFCNs 10, 80, 100, 120 for GSM and ARFCNs 520, 600, 700, 870 for DCS. ARFCNs 10 and 520 are the BCCH frequency for GSM and DCS respectively. The four empty positions in TSPX\_Ma30 represent (from left to right) 120 (870), 100 (700), 80 (600) and 10 (520). The TSPX\_Ma30 shall include at least one frequency. If TSPX\_Ma30 includes only one frequency, the frequency shall not be BCCH carrier.  
2. The TSPX\_Maio30 is dependent on TSPX\_Ma30. Its value is from 0 to the number of frequencies in TSPX\_Ma30 - 1

**Table 101: Parameters for IMMEDIATE ASSIGNMENT before time of TC\_26\_6\_13\_10**

| Item | Name        | Type         | value              |
|------|-------------|--------------|--------------------|
| 1    | TSPX_Ma31   | BITSTRING[8] | '0 0 0 0 _ _ _ _'B |
| 2    | TSPX_Maio31 | BITSTRING[6] | ' _ _ _ _ _ _'B    |

References: Used in the test case TC\_26\_6\_13\_10,  
NOTE: 1. The cell allocation is ARFCNs 10, 80, 100, 120 for GSM and ARFCNs 520, 600, 700, 870 for DCS. ARFCNs 10 and 520 are the BCCH frequency for GSM and DCS respectively. The four empty positions in TSPX\_Ma31 represent (from left to right) 120 (870), 100 (700), 80 (600) and 10 (520). The TSPX\_Ma31 shall include at least one frequency. If only one frequency to be used, the frequency shall be different from the BCCH carrier.  
2. The TSPX\_Maio31 is dependent on TSPX\_Ma31. Its value is from 0 to the number of frequencies in TSPX\_Ma31 - 1.  
3. Parameters in this table shall be different from the parameters in the above table.

### B.7.2.5 Parameters for Setup message

The following tables are used by the test laboratory to control the setup message used in testing. they shall be filled by the test lab according to the ICS answers from the mobile station manufacturer.

For each basic service, there are three setup messages: TSPX\_Setup????\_1, TSPX\_Setup????\_2 and TSPX\_Setup????\_3.

- If the MS under test supports that basic service, TSPX\_Setup????\_1 shall be filled. If the MS supports more than one bearer capabilities, the TSPX\_????more shall be filled with TRUE and TSPX\_Setup????\_2 shall also be filled. Parameters in TSPX\_Setup????\_2 shall be different from TSPX\_Setup????\_1 as many as possible. The TSPX\_Setup????\_3 is skipped.

- If the MS does not support the basic service, TSPX\_Setup????\_1 and TSPX\_Setup????\_2 are skipped. TSPX\_Setup????\_3 shall be filled with values which are arbitrarily selected among those defined in GSM 07.01 annex B for the basic service.

## B.7.2.5.1 Telephony

Table 102: Parameter TSPX\_SetupTS11\_1

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplx     | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| tm       | BITSTRING[1]       |             | transfer mode                                                                      |
| itc      | BITSTRING[3]       |             | information transfer capability                                                    |
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |



|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 103: Parameter TSPX\_TS11more

| Name          | Type    | Value | Comments |
|---------------|---------|-------|----------|
| TSPX_TS11more | BOOLEAN |       |          |

Table 104: Parameter TSPX\_SetupTS11\_2

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplxm    | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 105: Parameter TSPX\_SetupTS11\_3

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmpp     | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

## B.7.2.5.2 Alternate Speech and G3 Fax

Table 106: Parameter TSPX\_SetupTS61\_1

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |



|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| tm       | BITSTRING[1]       |             | transfer mode                                                                      |
| itc      | BITSTRING[3]       |             | information transfer capability                                                    |
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplxm    | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 107: Parameter TSPX\_TS61more

| Name          | Type    | Value | Comments |
|---------------|---------|-------|----------|
| TSPX_TS61more | BOOLEAN |       |          |

Table 108: Parameter TSPX\_SetupTS61\_2

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplxm    | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 109: Parameter TSPX\_SetupTS61\_3

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |



## B.7.2.5.3 Automatic G3 fax

Table 110: Parameter TSPX\_SetupTS62\_1

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| tm       | BITSTRING[1]       |             | transfer mode                                                                      |
| itc      | BITSTRING[3]       |             | information transfer capability                                                    |
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 111: Parameter TSPX\_TS62more

| Name          | Type    | Value | Comments |
|---------------|---------|-------|----------|
| TSPX_TS62more | BOOLEAN |       |          |

Table 112: Parameter TSPX\_SetupTS62\_2

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplxm    | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 113: Parameter TSPX\_SetupTS62\_3

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |



|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

## B.7.2.5.4 Data circuit duplex async. 300 bit/s

Table 114: Parameter TSPX\_SetupBS21\_1

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| tm       | BITSTRING[1]       |             | transfer mode                                                                      |
| itc      | BITSTRING[3]       |             | information transfer capability                                                    |
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplxm    | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 115: Parameter TSPX\_BS21more

| Name          | Type    | Value | Comments |
|---------------|---------|-------|----------|
| TSPX_BS21more | BOOLEAN |       |          |

Table 116: Parameter TSPX\_SetupBS21\_2

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmpp     | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 117: Parameter TSPX\_SetupBS21\_3

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplx     | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |



|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplxm    | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

## B.7.2.5.5 Data circuit duplex async. 1 200 bit/s

Table 118: Parameter TSPX\_SetupBS22\_1

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| tm       | BITSTRING[1]       |             | transfer mode                                                                      |
| itc      | BITSTRING[3]       |             | information transfer capability                                                    |
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 119: Parameter TSPX\_BS22more

| Name          | Type    | Value | Comments |
|---------------|---------|-------|----------|
| TSPX_BS22more | BOOLEAN |       |          |

Table 120: Parameter TSPX\_SetupBS22\_2

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplxm    | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |



Table 121: Parameter TSPX\_SetupBS22\_3

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplx     | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplxm    | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

## B.7.2.5.6 Data circuit duplex async. 1200/75 bit/s

Table 122: Parameter TSPX\_SetupBS23\_1

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplx     | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| tm       | BITSTRING[1]       |             | transfer mode                                                                      |
| itc      | BITSTRING[3]       |             | information transfer capability                                                    |
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplxm    | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 123: Parameter TSPX\_BS23more

| Name          | Type    | Value | Comments |
|---------------|---------|-------|----------|
| TSPX_BS23more | BOOLEAN |       |          |

Table 124: Parameter TSPX\_SetupBS23\_2

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |



|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 125: Parameter TSPX\_SetupBS23\_3

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplx     | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplxm    | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

## B.7.2.5.7 Data circuit duplex async. 2 400 bit/s

Table 126: Parameter TSPX\_SetupBS24\_1

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| tm       | BITSTRING[1]       |             | transfer mode                                                                      |
| itc      | BITSTRING[3]       |             | information transfer capability                                                    |
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 127: Parameter TSPX\_BS24more

| Name          | Type    | Value | Comments |
|---------------|---------|-------|----------|
| TSPX_BS24more | BOOLEAN |       |          |

Table 128: Parameter TSPX\_SetupBS24\_2

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |



|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplxm    | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 129: Parameter TSPX\_SetupBS24\_3

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

## B.7.2.5.8 Data circuit duplex async. 4 800 bit/s

Table 130: Parameter TSPX\_SetupBS25\_1

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| tm       | BITSTRING[1]       |             | transfer mode                                                                      |
| itc      | BITSTRING[3]       |             | information transfer capability                                                    |
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 131: Parameter TSPX\_BS25more

| Name          | Type    | Value | Comments |
|---------------|---------|-------|----------|
| TSPX_BS25more | BOOLEAN |       |          |



Table 132: Parameter TSPX\_SetupBS25\_2

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 133: Parameter TSPX\_SetupBS25\_3

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplxm    | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

## B.7.2.5.9 Data circuit duplex async. 9 600 bit/s

Table 134: Parameter TSPX\_SetupBS26\_1

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| tm       | BITSTRING[1]       |             | transfer mode                                                                      |
| itc      | BITSTRING[3]       |             | information transfer capability                                                    |
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |



|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 135: Parameter TSPX\_BS26more

| Name          | Type    | Value | Comments |
|---------------|---------|-------|----------|
| TSPX_BS26more | BOOLEAN |       |          |

Table 136: Parameter TSPX\_SetupBS26\_2

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 137: Parameter TSPX\_SetupBS26\_3

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

## B.7.2.5.10 Data circuit duplex sync. 1 200 bit/s

Table 138: Parameter TSPX\_SetupBS31\_1

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |



|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| tm       | BITSTRING[1]       |             | transfer mode                                                                      |
| itc      | BITSTRING[3]       |             | information transfer capability                                                    |
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplxm    | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 139: Parameter TSPX\_BS31more

| Name          | Type    | Value | Comments |
|---------------|---------|-------|----------|
| TSPX_BS31more | BOOLEAN |       |          |

Table 140: Parameter TSPX\_SetupBS31\_2

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmpp     | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 141: Parameter TSPX\_SetupBS31\_3

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplxm    | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |



## B.7.2.5.11 Data circuit duplex sync. 2 400 bit/s

Table 142: Parameter TSPX\_SetupBS32\_1

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| tm       | BITSTRING[1]       |             | transfer mode                                                                      |
| itc      | BITSTRING[3]       |             | information transfer capability                                                    |
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 143: Parameter TSPX\_BS32more

| Name          | Type    | Value | Comments |
|---------------|---------|-------|----------|
| TSPX_BS32more | BOOLEAN |       |          |

Table 144: Parameter TSPX\_SetupBS32\_2

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplx     | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 145: Parameter TSPX\_SetupBS32\_3

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |



|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

## B.7.2.5.12 Data circuit duplex sync. 4 800 bit/s

Table 146: Parameter TSPX\_SetupBS33\_1

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| tm       | BITSTRING[1]       |             | transfer mode                                                                      |
| itc      | BITSTRING[3]       |             | information transfer capability                                                    |
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplxm    | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 147: Parameter TSPX\_BS33more

| Name          | Type    | Value | Comments |
|---------------|---------|-------|----------|
| TSPX_BS33more | BOOLEAN |       |          |

Table 148: Parameter TSPX\_SetupBS33\_2

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplx     | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmpp     | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 149: Parameter TSPX\_SetupBS33\_3

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |



|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

## B.7.2.5.13 Data circuit duplex sync. 9 600 bit/s

Table 150: Parameter TSPX\_SetupBS34\_1

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| tm       | BITSTRING[1]       |             | transfer mode                                                                      |
| itc      | BITSTRING[3]       |             | information transfer capability                                                    |
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 151: Parameter TSPX\_BS34more

| Name          | Type    | Value | Comments |
|---------------|---------|-------|----------|
| TSPX_BS34more | BOOLEAN |       |          |

Table 152: Parameter TSPX\_SetupBS34\_2

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplxm    | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |



Table 153: Parameter TSPX\_SetupBS34\_3

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

## B.7.2.5.14 PAD Access 300 bit/s

Table 154: Parameter TSPX\_SetupBS41\_1

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| tm       | BITSTRING[1]       |             | transfer mode                                                                      |
| itc      | BITSTRING[3]       |             | information transfer capability                                                    |
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 155: Parameter TSPX\_BS41more

| Name          | Type    | Value | Comments |
|---------------|---------|-------|----------|
| TSPX_BS41more | BOOLEAN |       |          |

Table 156: Parameter TSPX\_SetupBS41\_2

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |



|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 157: Parameter TSPX\_SetupBS41\_3

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplxm    | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

## B.7.2.5.15 PAD Access 1 200 bit/s

Table 158: Parameter TSPX\_SetupBS42\_1

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| tm       | BITSTRING[1]       |             | transfer mode                                                                      |
| itc      | BITSTRING[3]       |             | information transfer capability                                                    |
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 159: Parameter TSPX\_BS42more

| Name          | Type    | Value | Comments |
|---------------|---------|-------|----------|
| TSPX_BS42more | BOOLEAN |       |          |

Table 160: Parameter TSPX\_SetupBS42\_2

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |



|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 161: Parameter TSPX\_SetupBS42\_3

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplxm    | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmpp     | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

## B.7.2.5.16 PAD Access 1200/75 bit/s

Table 162: Parameter TSPX\_SetupBS43\_1

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplx     | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| tm       | BITSTRING[1]       |             | transfer mode                                                                      |
| itc      | BITSTRING[3]       |             | information transfer capability                                                    |
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplxm    | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 163: Parameter TSPX\_BS43more

| Name          | Type    | Value | Comments |
|---------------|---------|-------|----------|
| TSPX_BS43more | BOOLEAN |       |          |



Table 164: Parameter TSPX\_SetupBS43\_2

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 165: Parameter TSPX\_SetupBS43\_3

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplxm    | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

## B.7.2.5.17 PAD Access 2 400 bit/s

Table 166: Parameter TSPX\_SetupBS44\_1

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| tm       | BITSTRING[1]       |             | transfer mode                                                                      |
| itc      | BITSTRING[3]       |             | information transfer capability                                                    |
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |



|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 167: Parameter TSPX\_BS44more

| Name          | Type    | Value | Comments |
|---------------|---------|-------|----------|
| TSPX_BS44more | BOOLEAN |       |          |

Table 168: Parameter TSPX\_SetupBS44\_2

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplx     | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplxm    | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 169: Parameter TSPX\_SetupBS44\_3

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

## B.7.2.5.18 PAD Access 4 800 bit/s

Table 170: Parameter TSPX\_SetupBS45\_1

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplx     | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |



|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| tm       | BITSTRING[1]       |             | transfer mode                                                                      |
| itc      | BITSTRING[3]       |             | information transfer capability                                                    |
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplxm    | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 171: Parameter TSPX\_BS45more

| Name          | Type    | Value | Comments |
|---------------|---------|-------|----------|
| TSPX_BS45more | BOOLEAN |       |          |

Table 172: Parameter TSPX\_SetupBS45\_2

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmpp     | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 173: Parameter TSPX\_SetupBS45\_3

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplxm    | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |



## B.7.2.5.19 PAD Access 9 600 bit/s

Table 174: Parameter TSPX\_SetupBS46\_1

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| tm       | BITSTRING[1]       |             | transfer mode                                                                      |
| itc      | BITSTRING[3]       |             | information transfer capability                                                    |
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 175: Parameter TSPX\_BS46more

| Name          | Type    | Value | Comments |
|---------------|---------|-------|----------|
| TSPX_BS46more | BOOLEAN |       |          |

Table 176: Parameter TSPX\_SetupBS46\_2

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 177: Parameter TSPX\_SetupBS46\_3

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmpp     | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |



|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

## B.7.2.5.20 Packet Access 2 400 bit/s

Table 178: Parameter TSPX\_SetupBS51\_1

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| tm       | BITSTRING[1]       |             | transfer mode                                                                      |
| itc      | BITSTRING[3]       |             | information transfer capability                                                    |
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplxm    | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 179: Parameter TSPX\_BS51more

| Name          | Type    | Value | Comments |
|---------------|---------|-------|----------|
| TSPX_BS51more | BOOLEAN |       |          |

Table 180: Parameter TSPX\_SetupBS51\_2

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplx     | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 181: Parameter TSPX\_SetupBS51\_3

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |



|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplxm    | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

## B.7.2.5.21 Packet Access 4 800 bit/s

Table 182: Parameter TSPX\_SetupBS52\_1

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| tm       | BITSTRING[1]       |             | transfer mode                                                                      |
| itc      | BITSTRING[3]       |             | information transfer capability                                                    |
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 183: Parameter TSPX\_BS52more

| Name          | Type    | Value | Comments |
|---------------|---------|-------|----------|
| TSPX_BS52more | BOOLEAN |       |          |

Table 184: Parameter TSPX\_SetupBS52\_2

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplxm    | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |



Table 185: Parameter TSPX\_SetupBS52\_3

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

## B.7.2.5.22 Packet Access 9 600 bit/s

Table 186: Parameter TSPX\_SetupBS53\_1

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| tm       | BITSTRING[1]       |             | transfer mode                                                                      |
| itc      | BITSTRING[3]       |             | information transfer capability                                                    |
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplxm    | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 187: Parameter TSPX\_BS53more

| Name          | Type    | Value | Comments |
|---------------|---------|-------|----------|
| TSPX_BS53more | BOOLEAN |       |          |

Table 188: Parameter TSPX\_SetupBS53\_2

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmpp     | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |



|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 189: Parameter TSPX\_SetupBS53\_3

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplxm    | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

## B.7.2.5.23 Alternate Speech/Data

Table 190: Parameter TSPX\_SetupBS61\_1

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| tm       | BITSTRING[1]       |             | transfer mode                                                                      |
| itc      | BITSTRING[3]       |             | information transfer capability                                                    |
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 191: Parameter TSPX\_BS61more

| Name          | Type    | Value | Comments |
|---------------|---------|-------|----------|
| TSPX_BS61more | BOOLEAN |       |          |

Table 192: Parameter TSPX\_SetupBS61\_2

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |



|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 193: Parameter TSPX\_SetupBS61\_3

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

## B.7.2.5.24 Speech Followed by Data

Table 194: Parameter TSPX\_SetupBS81\_1

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| tm       | BITSTRING[1]       |             | transfer mode                                                                      |
| itc      | BITSTRING[3]       |             | information transfer capability                                                    |
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplxm    | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 195: Parameter TSPX\_BS81more

| Name          | Type    | Value | Comments |
|---------------|---------|-------|----------|
| TSPX_BS81more | BOOLEAN |       |          |



Table 196: Parameter TSPX\_SetupBS81\_2

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplx     | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplx     | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

Table 197: Parameter TSPX\_SetupBS81\_3

| Field    | Type           | Value          | Comments                                                                    |
|----------|----------------|----------------|-----------------------------------------------------------------------------|
| ti       | BITSTRING[4]   | '0000'B        |                                                                             |
| pd       | BITSTRING[4]   | '0011'B        |                                                                             |
| mt       | BITSTRING[8]   | '00000101'B    |                                                                             |
| omitted? |                |                | BC repeat indicator. If the answer is OMIT the IE is omitted in the message |
| bcri     | BITSTRING[8]   | '1101_ _ _ _'B |                                                                             |
| omitted? |                |                | Bearer capability 1. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |
| extb4    | BITSTRING[1]   |                | extension bit                                                               |
| spb      | BITSTRING[1]   | '0'B           | spare bit                                                                   |
| strc     | BITSTRING[1]   |                | structure                                                                   |
| dplxm    | BITSTRING[2]   |                | duplex mode                                                                 |
| config   | BITSTRING[1]   |                | configuration                                                               |
| nirr     | BITSTRING[1]   |                | negotiation of intermediate rate requested                                  |
| est      | BITSTRING[1]   |                | establishment                                                               |
| extb5    | BITSTRING[1]   |                | extension bit                                                               |
| accid    | BITSTRING[2]   |                | access identify                                                             |
| ra       | BITSTRING[2]   |                | rate adaption                                                               |
| sacp     | BITSTRING[3]   |                | signalling access protocol                                                  |
| extb6    | BITSTRING[1]   |                | extension bit                                                               |
| l1id     | BITSTRING[2]   |                | L1 identity                                                                 |
| uil1     | BITSTRING[4]   |                | user information L 1 protocol                                               |
| sb       | BITSTRING[1]   |                | synchronous bit                                                             |
| extb6a   | BITSTRING[1]   |                | extension bit                                                               |
| nsb      | BITSTRING[1]   |                | number of stop bits                                                         |
| nb       | BITSTRING[1]   |                | negotiation bit                                                             |
| ndb      | BITSTRING[1]   |                | number of data bits                                                         |
| ur       | BITSTRING[4]   |                | user rate                                                                   |
| extb6b   | BITSTRING[1]   |                | extension bit                                                               |
| ir       | BITSTRING[2]   |                | intermediate rate                                                           |
| nictx    | BITSTRING[1]   |                | network independent clock on transmission                                   |
| nicrx    | BITSTRING[1]   |                | network independent clock on reception                                      |
| pi       | BITSTRING[3]   |                | parity information                                                          |
| extb6c   | BITSTRING[1]   |                | extension bit                                                               |
| ce       | BITSTRING[2]   |                | connection element                                                          |
| modemt   | BITSTRING[5]   |                | modem type                                                                  |
| extb7    | BITSTRING[1]   |                | extension bit                                                               |
| l2id     | BITSTRING[2]   |                | L2 identity                                                                 |
| uil2     | BITSTRING[5]   |                | user information L2 protocol                                                |
| omitted? |                |                | Bearer capability 2. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '00000100'B    |                                                                             |
| iel      | OCTETSTRING[1] |                | length of the IE in unit of OCTET                                           |
| extb3    | BITSTRING[1]   |                | extension bit                                                               |
| rchr     | BITSTRING[2]   | '00'B          | spare bit in the direction n -> ms                                          |
| cs       | BITSTRING[1]   |                | coding standard                                                             |
| tm       | BITSTRING[1]   |                | transfer mode                                                               |
| itc      | BITSTRING[3]   |                | information transfer capability                                             |

|          |                    |             |                                                                                    |
|----------|--------------------|-------------|------------------------------------------------------------------------------------|
| extb4    | BITSTRING[1]       |             | extension bit                                                                      |
| spb      | BITSTRING[1]       | '0'B        | spare bit                                                                          |
| strc     | BITSTRING[1]       |             | structure                                                                          |
| dplxm    | BITSTRING[2]       |             | duplex mode                                                                        |
| config   | BITSTRING[1]       |             | configuration                                                                      |
| nirr     | BITSTRING[1]       |             | negotiation of intermediate rate requested                                         |
| est      | BITSTRING[1]       |             | establishment                                                                      |
| extb5    | BITSTRING[1]       |             | extension bit                                                                      |
| accid    | BITSTRING[2]       |             | access identify                                                                    |
| ra       | BITSTRING[2]       |             | rate adaption                                                                      |
| sacp     | BITSTRING[3]       |             | signalling access protocol                                                         |
| extb6    | BITSTRING[1]       |             | extension bit                                                                      |
| l1id     | BITSTRING[2]       |             | L1 identity                                                                        |
| uil1     | BITSTRING[4]       |             | user information L 1 protocol                                                      |
| sb       | BITSTRING[1]       |             | synchronous bit                                                                    |
| extb6a   | BITSTRING[1]       |             | extension bit                                                                      |
| nsb      | BITSTRING[1]       |             | number of stop bits                                                                |
| nb       | BITSTRING[1]       |             | negotiation bit                                                                    |
| ndb      | BITSTRING[1]       |             | number of data bits                                                                |
| ur       | BITSTRING[4]       |             | user rate                                                                          |
| extb6b   | BITSTRING[1]       |             | extension bit                                                                      |
| ir       | BITSTRING[2]       |             | intermediate rate                                                                  |
| nictx    | BITSTRING[1]       |             | network independent clock on transmission                                          |
| nicrx    | BITSTRING[1]       |             | network independent clock on reception                                             |
| pi       | BITSTRING[3]       |             | parity information                                                                 |
| extb6c   | BITSTRING[1]       |             | extension bit                                                                      |
| ce       | BITSTRING[2]       |             | connection element                                                                 |
| modemt   | BITSTRING[5]       |             | modem type                                                                         |
| extb7    | BITSTRING[1]       |             | extension bit                                                                      |
| l2id     | BITSTRING[2]       |             | L2 identity                                                                        |
| uil2     | BITSTRING[5]       |             | user information L2 protocol                                                       |
| omitted? |                    |             | LLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| llcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | low layer compatibility I. If the answer is OMIT the IE is omitted in the message  |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | low layer compatibility II. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111100'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             |                                                                                    |
| contents | OCTETSTRING[1..13] |             |                                                                                    |
| omitted? |                    |             | HLC repeat indicator. If the answer is OMIT the IE is omitted in the message       |
| hlcri    | BITSTRING[8]       | '1101____'B |                                                                                    |
| omitted? |                    |             | high layer compatibility i. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]       | '01111101'B |                                                                                    |
| iel      | OCTETSTRING[1]     |             | length of the element                                                              |
| extb3    | BITSTRING[1]       | '1'B        |                                                                                    |
| cs       | BITSTRING[2]       |             | coding standard                                                                    |
| in       | BITSTRING[3]       |             | interpretation                                                                     |
| pmp      | BITSTRING[2]       |             | presentation method of protocol                                                    |
| extb4    | BITSTRING[1]       | '1'B        |                                                                                    |
| hlci     | BITSTRING[7]       |             | high layer characteristic identification                                           |

|          |                |             |                                                                                     |
|----------|----------------|-------------|-------------------------------------------------------------------------------------|
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |
| omitted? |                |             | high layer compatibility ii. If the answer is OMIT the IE is omitted in the message |
| iei      | BITSTRING[8]   | '01111101'B |                                                                                     |
| iel      | OCTETSTRING[1] |             | length of the element                                                               |
| extb3    | BITSTRING[1]   | '1'B        |                                                                                     |
| cs       | BITSTRING[2]   |             | coding standard                                                                     |
| in       | BITSTRING[3]   |             | interpretation                                                                      |
| pmp      | BITSTRING[2]   |             | presentation method of protocol                                                     |
| extb4    | BITSTRING[1]   | '1'B        |                                                                                     |
| hlci     | BITSTRING[7]   |             | high layer characteristic identification                                            |
| extb4a   | BITSTRING[1]   |             |                                                                                     |
| ehlci    | BITSTRING[7]   |             | extended high layer characteristic identification                                   |

### B.7.2.6 Other Parameters

#### B.7.2.6.1 Parameter TSPX\_MAIO

This parameter is used in handover test cases of RR test group.

**Table 198: Parameter TSPX\_MAIO**

| Parameter Name: TSPX_MAIO                                                                                                                                                                                                                                                                                                          |                |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|
| Type                                                                                                                                                                                                                                                                                                                               | Value          | Comments |
| BITSTRING[6]                                                                                                                                                                                                                                                                                                                       | '_ _ _ _ _ _'B |          |
| References:                                                                                                                                                                                                                                                                                                                        |                |          |
| TSPX_MAIO is used in: TC_26_6_5_1_2, TC_26_6_5_1_3, TC_26_6_5_1_4, TC_26_6_5_1_5, TC_26_6_5_1_6, TC_26_6_5_1_7, TC_26_6_5_1_8, TC_26_6_5_2_1, TC_26_6_5_2_2, TC_26_6_5_2_3, TC_26_6_5_2_4, TC_26_6_5_2_6, TC_26_6_5_2_7, TC_26_6_5_2_8, TC_26_6_5_2_9, TC_26_6_5_2_10, TC_26_6_5_3_1, TC_26_6_5_4_1, TC_26_6_5_4_2, TC_26_6_5_4_3. |                |          |

#### B.7.2.6.2 Parameter TSPX\_Cause

In TC\_26\_8\_1\_3\_4\_8, it is required to check the MS behaviour of receiving a RELEASE COMPLETE message containing a valid cause value selected arbitrarily but controllable. The parameter TSPX\_Cause specifies such cause IE.

Table 199: Parameter TSPX\_Cause

| Parameter Name: TSPX_Cause                             |                    |             |                                   |
|--------------------------------------------------------|--------------------|-------------|-----------------------------------|
| Field                                                  | Type               | Value       | Comments                          |
| iei                                                    | BITSTRING[8]       | '00001000'B |                                   |
| iel                                                    | OCTETSTRING[1]     | '02'O       | length of the IE in unit of OCTET |
| extb3                                                  | BITSTRING[1]       | '1'B        | no extension                      |
| cs                                                     | BITSTRING[2]       | '11'B       | standard coding                   |
| spb                                                    | BITSTRING[1]       | '0'B        | spare bit                         |
| location                                               | BITSTRING[4]       |             | location                          |
| extb3a                                                 | BITSTRING[1]       | OMIT        | extension bit                     |
| rec                                                    | BITSTRING[7]       | OMIT        | recommendation                    |
| extb4                                                  | BITSTRING[1]       | '1'B        | extension bit                     |
| cau_class                                              | BITSTRING[3]       |             | cause class                       |
| cau_va                                                 | BITSTRING[4]       |             | cause value                       |
| cau_di                                                 | OCTETSTRING[1..28] | OMIT        | diagnostic                        |
| References:<br>TSPX_Cause is used in: TC_26_8_1_3_4_8, |                    |             |                                   |

### B.7.2.6.3 Parameters for Ciphering Key Sequence Number

The parameters TSPX\_CKSN's represent the CKSN. The item 1 to item 7 are used in test cases where the CKSN are arbitrarily selected but controllable. The parameters can be any valid values but they shall be different from each other. Item 7 is the default CKSN used in the test cases where the CKSN is not specifically indicated, and used in all CC test cases. The default ciphering key sequence number (TSPX\_CKSNDef) will be stored in the test SIM card together with the corresponding default ciphering key (Kc).

Table 200: Parameters for CKSN

| Item                                                                                                                                                                                                                                                                                                                                                                                     | Name         | Type         | Value |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|-------|
| 1                                                                                                                                                                                                                                                                                                                                                                                        | TSPX_CKSNA   | BITSTRING[3] |       |
| 2                                                                                                                                                                                                                                                                                                                                                                                        | TSPX_CKSNB   | BITSTRING[3] |       |
| 3                                                                                                                                                                                                                                                                                                                                                                                        | TSPX_CKSNC   | BITSTRING[3] |       |
| 4                                                                                                                                                                                                                                                                                                                                                                                        | TSPX_CKSND   | BITSTRING[3] |       |
| 5                                                                                                                                                                                                                                                                                                                                                                                        | TSPX_CKSNE   | BITSTRING[3] |       |
| 6                                                                                                                                                                                                                                                                                                                                                                                        | TSPX_CKSNF   | BITSTRING[3] |       |
| 7                                                                                                                                                                                                                                                                                                                                                                                        | TSPX_CKSNDef | BITSTRING[3] |       |
| References:<br>TSPX_CKSNA is used in: TC_26_7_4_3_3, TC_26_8_2_1.<br>TSPX_CKSNB is used in: TC_26_7_2_1, TC_26_7_2_2, TC_26_8_4.<br>TSPX_CKSNC is used in: TC_26_8_4,<br>TSPX_CKSND is used in: No at this moment.<br>TSPX_CKSNE is used in: No at this moment.<br>TSPX_CKSNF is used in: No at this moment.<br>TSPX_CKSNDef is used in: All other test cases except cases listed above. |              |              |       |

### B.7.2.6.4 Parameter TSPX\_Txint

In test case TC\_26\_2\_1\_2, it is required to use a arbitrarily selected but controllable value for Tx-Integer. The parameter TSPX\_Txint is the value of the Tx-Integer. The value shall be in the set {6, 7, 8, 9, 10, 11, 12, 14, 16, 20, 25, 32, 50}.

**Table 201: Parameter TSPX\_Txint**

|                                                   |            |
|---------------------------------------------------|------------|
| Parameter Name                                    | TSPX_Txint |
| Parameter Type                                    | INTEGER    |
| Parameter Value                                   |            |
| References:<br>TSPX_Txint is used in: TC_26_2_1_2 |            |

**B.7.2.6.5 Parameter TSPX\_MaxRetrans**

In test case TC\_26\_2\_1\_2, it is required to use a arbitrarily selected but controllable value for Max-Retrans. The parameters TSPX\_MaxRetrans is the value of the Max-Retrans. The value shall be in the set {1, 2, 4, 7}.

**Table 202: Parameter TSPX\_MaxRetrans**

|                                                                   |                 |
|-------------------------------------------------------------------|-----------------|
| Parameter Name                                                    | TSPX_MaxRetrans |
| Parameter Type                                                    | INTEGER         |
| Parameter Value                                                   |                 |
| References:<br>TSPX_Txint is used in: TC_26_2_1_2, TC_26_7_4_3_1. |                 |

**B.7.2.6.6 Parameters for Handover reference**

The parameters TSPX\_horf's represent the handover reference. They are used in test cases where the handover references are arbitrarily selected but controllable. The parameters can have any valid values but they shall be different from each other.



Table 203: Parameters for Handover reference

| Item | Name       | Type         | Value |
|------|------------|--------------|-------|
| 1    | TSPX_horfA | BITSTRING[8] |       |
| 2    | TSPX_horfB | BITSTRING[8] |       |
| 8    | TSPX_horfC | BITSTRING[8] |       |
| 4    | TSPX_horfD | BITSTRING[8] |       |
| 5    | TSPX_horfE | BITSTRING[8] |       |
| 6    | TSPX_horfF | BITSTRING[8] |       |
| 7    | TSPX_horfG | BITSTRING[8] |       |
| 8    | TSPX_horfH | BITSTRING[8] |       |
| 9    | TSPX_horfI | BITSTRING[8] |       |
| 10   | TSPX_horfJ | BITSTRING[8] |       |

References:

TSPX\_horfA is used in: TC\_26\_6\_5\_1\_1, TC\_26\_6\_5\_2\_1, TC\_26\_6\_5\_3\_1, TC\_26\_6\_5\_4\_1, TC\_26\_6\_5\_4\_3, TC\_26\_6\_8\_4, TC\_26\_8\_1\_4\_3\_1.

TSPX\_horfB is used in: TC\_26\_6\_5\_1\_2, TC\_26\_6\_5\_2\_2, TC\_26\_6\_5\_3\_2, TC\_26\_6\_5\_4\_2, TC\_26\_6\_5\_7, TC\_26\_8\_1\_4\_3\_2.

TSPX\_horfC is used in: TC\_26\_6\_5\_1\_3, TC\_26\_6\_5\_2\_3, TC\_26\_6\_5\_8, TC\_26\_6\_5\_9.

TSPX\_horfD is used in: TC\_26\_6\_5\_1\_4, TC\_26\_6\_5\_2\_4, TC\_26\_6\_5\_4\_4, TC\_26\_6\_5\_5\_1, TC\_26\_6\_5\_5\_2, TC\_26\_6\_5\_6, TC\_26\_6\_5\_7, TC\_26\_6\_5\_8, TC\_26\_6\_5\_9.

TSPX\_horfE is used in: TC\_26\_6\_5\_1\_5, TC\_26\_6\_5\_2\_5.

TSPX\_horfF is used in: TC\_26\_6\_5\_1\_6, TC\_26\_6\_5\_2\_6, TC\_26\_6\_5\_5\_2.

TSPX\_horfG is used in: TC\_26\_6\_5\_1\_7, TC\_26\_6\_5\_2\_7.

TSPX\_horfH is used in: TC\_26\_6\_5\_1\_8, TC\_26\_6\_5\_2\_8, TC\_26\_6\_5\_6.

TSPX\_horfI is used in: TC\_26\_6\_5\_2\_9.

TSPX\_horfJ is used in: TC\_26\_6\_5\_2\_10.

#### B.7.2.6.7 Parameters for the number of Handover accesses

The parameters TSPX\_hoaccess's represent the number of handover accesses occurred in an asynchronous handover. They are used in test cases where the number of handover accesses are arbitrarily selected but controllable. The parameters can have any values between 5 and 15 but they shall be different from each other.

Table 204: Parameters for Handover access

| Item | Name           | Type    | Value |
|------|----------------|---------|-------|
| 1    | TSPX_hoaccessA | INTEGER |       |
| 2    | TSPX_hoaccessB | INTEGER |       |
| 8    | TSPX_hoaccessC | INTEGER |       |
| 4    | TSPX_hoaccessD | INTEGER |       |
| 5    | TSPX_hoaccessE | INTEGER |       |
| 6    | TSPX_hoaccessF | INTEGER |       |
| 7    | TSPX_hoaccessG | INTEGER |       |
| 8    | TSPX_hoaccessH | INTEGER |       |
| 9    | TSPX_hoaccessI | INTEGER |       |
| 10   | TSPX_hoaccessJ | INTEGER |       |

References:

TSPX\_hoaccessA is used in: TC\_26\_6\_5\_1\_1, TC\_26\_6\_5\_2\_1, TC\_26\_6\_5\_4\_1.  
TSPX\_hoaccessB is used in: TC\_26\_6\_5\_1\_2, TC\_26\_6\_5\_2\_2.  
TSPX\_hoaccessC is used in: TC\_26\_6\_5\_1\_3, TC\_26\_6\_5\_2\_3.  
TSPX\_hoaccessD is used in: TC\_26\_6\_5\_1\_4, TC\_26\_6\_5\_2\_4.  
TSPX\_hoaccessE is used in: TC\_26\_6\_5\_1\_5, TC\_26\_6\_5\_2\_5.  
TSPX\_hoaccessF is used in: TC\_26\_6\_5\_1\_6, TC\_26\_6\_5\_2\_6.  
TSPX\_hoaccessG is used in: TC\_26\_6\_5\_1\_7, TC\_26\_6\_5\_2\_7.  
TSPX\_hoaccessH is used in: TC\_26\_6\_5\_1\_8, TC\_26\_6\_5\_2\_8.  
TSPX\_hoaccessI is used in: TC\_26\_6\_5\_2\_9.  
TSPX\_hoaccessJ is used in: TC\_26\_6\_5\_2\_10.

**B.7.2.6.8 Parameter TSPX\_HSN**

In handover test cases, it is required to use a arbitrarily selected but controllable value for hopping sequence number. The parameters TSPX\_HSN is the value of the hopping sequence number. The value shall be 0 - 63.

Table 205: Parameter TSPX\_HSN

|                 |              |
|-----------------|--------------|
| Parameter Name  | TSPX_HSN     |
| Parameter Type  | BITSTRING[6] |
| Parameter Value | '_____'B     |

References:

TSPX\_HSN is used in: TC\_26\_6\_5\_1\_2, TC\_26\_6\_5\_1\_3, TC\_26\_6\_5\_1\_4, TC\_26\_6\_5\_1\_5, TC\_26\_6\_5\_1\_6, TC\_26\_6\_5\_1\_7, TC\_26\_6\_5\_1\_8, TC\_26\_6\_5\_2\_1, TC\_26\_6\_5\_2\_2, TC\_26\_6\_5\_2\_3, TC\_26\_6\_5\_2\_4, TC\_26\_6\_5\_2\_5, TC\_26\_6\_5\_2\_6, TC\_26\_6\_5\_2\_7, TC\_26\_6\_5\_2\_8, TC\_26\_6\_5\_2\_9, TC\_26\_6\_5\_2\_10, TC\_26\_6\_5\_3\_1, TC\_26\_6\_5\_3\_2, TC\_26\_6\_5\_4\_1, TC\_26\_6\_5\_4\_2, TC\_26\_6\_5\_4\_3, TC\_26\_6\_5\_4\_4.

**B.7.2.6.9 Parameters for RAND**

The parameters TSPX\_RAND's represent the values of the RAND. These parameters can have any valid values but they shall be different from each other. The item 1 to item 4 are used in test cases where the RAND are arbitrarily selected but controllable. Item 5 is the default RAND used in the test cases where the RAND is not specifically indicated, and used in all CC test cases. The default challenge RAND (TSPX\_RANDDef) is used to generate the default ciphering key (Kc) which, together with the default ciphering key sequence number (TSPX\_CKSNDf), shall be stored in the test SIM card.



**Table 208: Parameter TSPX\_y**

|                                                            |         |
|------------------------------------------------------------|---------|
| Parameter Name                                             | TSPX_y  |
| Parameter Type                                             | INTEGER |
| Parameter Value                                            |         |
| References:<br>TSPX_y is used in: test case TC_26_6_5_5_2. |         |

**B.7.2.6.12 Parameter TSPX\_Ki**

Parameter TSPX\_Ki is used as the default authentication key which value will be stored in the test SIM card or the SIM simulator and used by the tester to generate ciphering key Kc. The TSPX\_Ki shall have a non-zero value

**Table 209: Parameter TSPX\_Ki**

|                                                       |                                     |
|-------------------------------------------------------|-------------------------------------|
| Parameter Name                                        | TSPX_Ki                             |
| Parameter Type                                        | BITSTRING[128]                      |
| Parameter Value                                       | '-----<br>-----<br>-----<br>-----'B |
| Remarks:<br>this parameter is used in all test cases. |                                     |

**B.7.2.6.13 Parameters for Channel Type (full or half rate) of CC test**

For some CC test, it is required that the selection of full rate or half rate channel is arbitrary but controllable. Parameters TSPX\_ChRate's is for this purpose. The value of TSPX\_ChRate is "F" for full rate channel or "H" for half rate channel.

Table 210: Parameter TSPX\_ChRate's

| Item                                                                                                                                              | Name         | Type      | Value |
|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------|-------|
| 1                                                                                                                                                 | TSPX_ChRateA | IA5String |       |
| 2                                                                                                                                                 | TSPX_ChRateB | IA5String |       |
| 3                                                                                                                                                 | TSPX_ChRateC | IA5String |       |
| 4                                                                                                                                                 | TSPX_ChRateD | IA5String |       |
| 5                                                                                                                                                 | TSPX_ChRateE | IA5String |       |
| 6                                                                                                                                                 | TSPX_ChRateF | IA5String |       |
| 7                                                                                                                                                 | TSPX_ChRateG | IA5String |       |
| 8                                                                                                                                                 | TSPX_ChRateH | IA5String |       |
| 9                                                                                                                                                 | TSPX_ChRateI | IA5String |       |
| 10                                                                                                                                                | TSPX_ChRateJ | IA5String |       |
| References:                                                                                                                                       |              |           |       |
| TSPX_ChRateA is used in: TC_26_8_1_2_2_1, TC_26_8_1_2_3_4, TC_26_8_1_2_4_7, TC_26_8_1_2_8_1, TC_26_8_1_2_8_4, TC_26_8_1_3_3_2, TC_26_8_1_3_5_5.   |              |           |       |
| TSPX_ChRateB is used in: TC_26_8_1_2_2_2, TC_26_8_1_2_3_1, TC_26_8_1_2_3_5, TC_26_8_1_2_5_3, TC_26_8_1_2_8_2, TC_26_8_1_3_5_6.                    |              |           |       |
| TSPX_ChRateC is used in: TC_26_8_1_2_2_3, TC_26_8_1_2_3_2, TC_26_8_1_2_3_6, TC_26_8_1_2_5_4, TC_26_8_1_2_9_4, TC_26_8_1_3_4_1, TC_26_8_1_3_5_8.   |              |           |       |
| TSPX_ChRateD is used in: TC_26_8_1_2_3_3, TC_26_8_1_2_3_7, TC_26_8_1_2_4_11, TC_26_8_1_2_5_5, TC_26_8_1_2_9_5, TC_26_8_1_3_4_2.                   |              |           |       |
| TSPX_ChRateE is used in: TC_26_8_1_2_4_1, TC_26_8_1_2_4_8, TC_26_8_1_2_4_10, TC_26_8_1_2_4_12, TC_26_8_1_2_5_6, TC_26_8_1_2_5_8, TC_26_8_1_3_4_6. |              |           |       |
| TSPX_ChRateF is used in: TC_26_8_1_2_4_2, TC_26_8_1_2_4_9, TC_26_8_1_2_4_13, TC_26_8_1_2_5_1, TC_26_8_1_2_6_3, TC_26_8_1_2_7_4, TC_26_8_1_3_4_7.  |              |           |       |
| TSPX_ChRateG is used in: TC_26_8_1_2_4_3, TC_26_8_1_2_5_2, TC_26_8_1_2_5_7, TC_26_8_1_2_6_4, TC_26_8_1_2_7_5, TC_26_8_1_3_5_1.                    |              |           |       |
| TSPX_ChRateH is used in: TC_26_8_1_2_4_4, TC_26_8_1_2_6_1, TC_26_8_1_2_6_5, TC_26_8_1_2_7_1, TC_26_8_1_2_9_1, TC_26_8_1_3_5_2.                    |              |           |       |
| TSPX_ChRateI is used in: TC_26_8_1_2_4_5, TC_26_8_1_2_6_2, TC_26_8_1_2_7_2, TC_26_8_1_2_8_3, TC_26_8_1_2_9_2, TC_26_8_1_3_5_3.                    |              |           |       |
| TSPX_ChRateJ is used in: TC_26_8_1_2_4_6, TC_26_8_1_2_6_6, TC_26_8_1_2_7_3, TC_26_8_1_2_9_3, TC_26_8_1_3_5_4.                                     |              |           |       |

#### B.7.2.6.14 Parameters for Ciphering Algorithm

The parameters TSPX\_CphAlg's represent the Ciphering Algorithm. The item 1 to item 6 are used in test cases where the Algorithm are arbitrarily selected but controllable. The parameters can have any valid values supported by the MS under test without duplication. If the number of values supported by the MS is less than 7, duplicated values can be used for some of the items, but the item 4 and the item 5 shall be different (when the number of the supported values is greater than 1). Item 7 is the default Algorithm used in the test cases where the algorithm is not specifically indicated. the meaning of the values is as following:

- '000'B represents the A5/1 algorithm;
- '001'B represents the A5/2 algorithm;
- '010'B represents the A5/3 algorithm;
- '011'B represents the A5/4 algorithm;
- '100'B represents the A5/5 algorithm;

- '101'B represents the A5/6 algorithm;
- '110'B represents the A5/7 algorithm;

**Table 211: Parameters for Ciphering Algorithm**

| Item                                                                                                                                                                                                                                                                                                                                         | Name           | Type         | Value |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------|-------|
| 1                                                                                                                                                                                                                                                                                                                                            | TSPX_CphAlgA   | BITSTRING[3] |       |
| 2                                                                                                                                                                                                                                                                                                                                            | TSPX_CphAlgB   | BITSTRING[3] |       |
| 3                                                                                                                                                                                                                                                                                                                                            | TSPX_CphAlgC   | BITSTRING[3] |       |
| 4                                                                                                                                                                                                                                                                                                                                            | TSPX_CphAlgD   | BITSTRING[3] |       |
| 5                                                                                                                                                                                                                                                                                                                                            | TSPX_CphAlgE   | BITSTRING[3] |       |
| 6                                                                                                                                                                                                                                                                                                                                            | TSPX_CphAlgF   | BITSTRING[3] |       |
| 7                                                                                                                                                                                                                                                                                                                                            | TSPX_CphAlgDef | BITSTRING[3] |       |
| References:<br>TSPX_CphAlgA is used in: TC_26_8_3, TC_26_8_4.<br>TSPX_CphAlgB is used in: TC_26_8_4.<br>TSPX_CphAlgC is used in: TC_26_8_4.<br>TSPX_CphAlgD is used in: TC_26_8_4.<br>TSPX_CphAlgE is used in: TC_26_8_4.<br>TSPX_CphAlgF is used in: No at this moment.<br>TSPX_CphAlgDef is used in: All structured procedures test cases, |                |              |       |

#### **B.7.2.6.15 Parameters for Training Sequence Code**

The parameters TSPX\_Tsc's represent the Training Sequence Code (TSC). The item 1 to item 8 are used in test cases where the TSC are arbitrarily selected but controllable. The parameters can have any valid values but they shall be different from each other. Item 1 is the default TSC used in the test cases where the TSC is not specifically indicated.

Table 212: Parameters for Training Sequence Code

| Item | Name        | Type         | Value |
|------|-------------|--------------|-------|
| 1    | TSPX_TscDef | BITSTRING[3] |       |
| 2    | TSPX_TscA   | BITSTRING[3] |       |
| 3    | TSPX_TscB   | BITSTRING[3] |       |
| 4    | TSPX_TscC   | BITSTRING[3] |       |
| 5    | TSPX_TscD   | BITSTRING[3] |       |
| 6    | TSPX_TscE   | BITSTRING[3] |       |
| 7    | TSPX_TscF   | BITSTRING[3] |       |
| 8    | TSPX_TscG   | BITSTRING[3] |       |

References:

TSPX\_TscA is used in: TC\_26\_6\_1\_1, TC\_26\_6\_1\_2, TC\_26\_6\_1\_4, TC\_26\_6\_1\_5, TC\_26\_6\_2\_1\_1, TC\_26\_6\_2\_1\_2, TC\_26\_6\_2\_1\_3, TC\_26\_6\_2\_5, TC\_26\_6\_3\_1, TC\_26\_6\_3\_2, TC\_26\_6\_3\_3, TC\_26\_6\_3\_4, TC\_26\_6\_3\_5, TC\_26\_6\_4\_1, TC\_26\_6\_4\_2\_1, TC\_26\_6\_4\_2\_2, TC\_26\_6\_5\_5\_1, TC\_26\_6\_5\_5\_2, TC\_26\_6\_5\_6, TC\_26\_6\_5\_7, TC\_26\_6\_5\_8, TC\_26\_6\_5\_9, TC\_26\_6\_6\_1, TC\_26\_6\_7\_1, TC\_26\_6\_7\_2, TC\_26\_6\_8\_1, TC\_26\_6\_8\_2, TC\_26\_6\_8\_3, TC\_26\_6\_8\_4, TC\_26\_6\_8\_5, TC\_26\_6\_11\_1, TC\_26\_6\_11\_2, TC\_26\_6\_12\_1, TC\_26\_6\_12\_2, TC\_26\_6\_12\_3, TC\_26\_6\_12\_4, TC\_26\_6\_13\_1, TC\_26\_6\_13\_2, TC\_26\_6\_13\_3, TC\_26\_6\_13\_4, TC\_26\_6\_13\_5, TC\_26\_6\_13\_6, TC\_26\_6\_13\_7, TC\_26\_6\_13\_8, TC\_26\_6\_13\_9, TC\_26\_6\_13\_10, TC\_26\_8\_1\_2\_3\_1, TC\_26\_8\_1\_2\_3\_2, TC\_26\_8\_1\_2\_3\_3, TC\_26\_8\_1\_2\_4\_1, TC\_26\_8\_1\_2\_4\_2, TC\_26\_8\_1\_2\_4\_3, TC\_26\_8\_1\_2\_4\_4, TC\_26\_8\_1\_2\_4\_5, TC\_26\_8\_1\_2\_4\_6, TC\_26\_8\_1\_2\_4\_7, TC\_26\_8\_1\_2\_4\_11, TC\_26\_8\_1\_2\_5\_3, TC\_26\_8\_1\_2\_5\_4, TC\_26\_8\_1\_2\_5\_5, TC\_26\_8\_1\_2\_5\_6, TC\_26\_8\_1\_2\_5\_8, TC\_26\_8\_1\_2\_6\_3, TC\_26\_8\_1\_2\_6\_4, TC\_26\_8\_1\_2\_6\_5, TC\_26\_8\_1\_2\_8\_3, TC\_26\_8\_1\_3\_5\_4, TC\_26\_8\_1\_3\_5\_5, TC\_26\_8\_1\_3\_5\_6.

TSPX\_TscB is used in: TC\_26\_6\_4\_1, TC\_26\_6\_5\_5\_1, TC\_26\_6\_5\_5\_2, TC\_26\_6\_5\_6, TC\_26\_6\_5\_7, TC\_26\_6\_5\_8, TC\_26\_6\_5\_9, TC\_26\_6\_6\_1, TC\_26\_6\_13\_1, TC\_26\_6\_13\_2, TC\_26\_6\_13\_6.

TSPX\_TscC is used in: TC\_26\_6\_4\_1, TC\_26\_6\_, TC\_26\_6\_6\_1, TC\_26\_6\_13\_2, TC\_26\_6\_13\_7.

TSPX\_TscD is used in: TC\_26\_6\_4\_1, TC\_26\_6\_6\_1, TC\_26\_6\_13\_3, TC\_26\_6\_13\_7, TC\_26\_6\_13\_8.

TSPX\_TscE is used in: TC\_26\_6\_4\_1, TC\_26\_6\_6\_1, TC\_26\_6\_13\_3, TC\_26\_6\_13\_8.

TSPX\_TscF is used in: TC\_26\_6\_4\_1, TC\_26\_6\_6\_1, TC\_26\_6\_13\_4, TC\_26\_6\_13\_9.

TSPX\_TscG is used in: TC\_26\_6\_4\_1, TC\_26\_6\_6\_1, TC\_26\_6\_13\_4, TC\_26\_6\_13\_5, TC\_26\_6\_13\_10.

TSPX\_TscDef is used in: TC\_26\_5\_6\_3, TC\_26\_6\_4\_2\_2, TC\_26\_6\_5\_1\_1, TC\_26\_6\_5\_1\_2, TC\_26\_6\_5\_1\_3, TC\_26\_6\_5\_1\_4, TC\_26\_6\_5\_1\_5, TC\_26\_6\_5\_1\_6, TC\_26\_6\_5\_1\_7, TC\_26\_6\_5\_1\_8, TC\_26\_6\_5\_2\_1, TC\_26\_6\_5\_2\_2, TC\_26\_6\_5\_2\_3, TC\_26\_6\_5\_2\_4, TC\_26\_6\_5\_2\_5, TC\_26\_6\_5\_2\_6, TC\_26\_6\_5\_2\_7, TC\_26\_6\_5\_2\_8, TC\_26\_6\_5\_2\_9, TC\_26\_6\_5\_2\_10, TC\_26\_6\_5\_3\_1, TC\_26\_6\_5\_3\_2, TC\_26\_6\_5\_4\_1, TC\_26\_6\_5\_4\_2, TC\_26\_6\_5\_4\_3, TC\_26\_6\_5\_4\_4, TC\_26\_6\_6\_1, TC\_26\_6\_13\_5, TC\_26\_6\_13\_6, TC\_26\_7\_4\_1, TC\_26\_7\_4\_2\_2\_2, TC\_26\_7\_4\_2\_4\_1, TC\_26\_7\_4\_2\_4\_5, TC\_26\_7\_4\_3\_2, TC\_26\_7\_4\_3\_3, TC\_26\_7\_4\_3\_4, TC\_26\_7\_4\_5\_2, TC\_26\_7\_4\_5\_4\_1, TC\_26\_7\_4\_5\_4\_2, TC\_26\_7\_4\_5\_4\_3, TC\_26\_7\_4\_6, TC\_26\_7\_5\_2, TC\_26\_7\_5\_3, TC\_26\_7\_5\_4, TC\_26\_7\_5\_5, TC\_26\_7\_5\_6, TC\_26\_7\_5\_7\_1, TC\_26\_7\_5\_8\_1, TC\_26\_7\_5\_8\_2, TC\_26\_7\_5\_8\_3, TC\_34\_2\_1, TC\_34\_2\_2.

#### B.7.2.6.16 Parameters for Timing Advance

The parameters TSPX\_Timadv's represent the Timing Advance (TA). The item 1 to item 8 are used in test cases where the TA are arbitrarily selected but controllable. The parameters can have any valid values but they shall be different from each other. Item 9 is the default TA used in the test cases where the TA is not specifically indicated.

**Table 213: Parameters for Timing Advance**

| Item | Name           | Type         | Value |
|------|----------------|--------------|-------|
| 1    | TSPX_TimadvA   | BITSTRING[6] |       |
| 2    | TSPX_TimadvB   | BITSTRING[6] |       |
| 6    | TSPX_TimadvC   | BITSTRING[6] |       |
| 4    | TSPX_TimadvD   | BITSTRING[6] |       |
| 5    | TSPX_TimadvE   | BITSTRING[6] |       |
| 6    | TSPX_TimadvF   | BITSTRING[6] |       |
| 7    | TSPX_TimadvG   | BITSTRING[6] |       |
| 8    | TSPX_TimadvH   | BITSTRING[6] |       |
| 9    | TSPX_TimadvDef | BITSTRING[6] |       |

References:

TSPX\_TimadvA is used in: TC\_26\_9\_2, TC\_26\_9\_3, TC\_26\_9\_4, TC\_26\_9\_5, TC\_26\_9\_6\_1\_1, TC\_26\_9\_6\_1\_2, TC\_26\_9\_6\_2\_1, TC\_26\_9\_6\_2\_2.

TSPX\_TimadvB is used in: TC\_26\_6\_1\_2, TC\_26\_6\_2\_2, TC\_26\_2\_3\_1, TC\_26\_6\_2\_3\_2, TC\_26\_6\_5\_1\_2, TC\_26\_6\_5\_1\_4, TC\_26\_6\_5\_1\_5, TC\_26\_6\_5\_1\_6, TC\_26\_6\_5\_1\_7, TC\_26\_6\_5\_1\_8, TC\_26\_6\_5\_2\_1, TC\_26\_6\_5\_2\_2, TC\_26\_6\_5\_2\_3, TC\_26\_6\_5\_2\_4, TC\_26\_6\_5\_2\_5, TC\_26\_6\_5\_2\_6, TC\_26\_6\_5\_2\_7, TC\_26\_6\_5\_2\_8, TC\_26\_6\_5\_2\_9, TC\_26\_6\_5\_2\_10, TC\_26\_6\_5\_3\_1, TC\_26\_6\_5\_4\_1, TC\_26\_6\_5\_4\_2, TC\_26\_6\_5\_4\_3, TC\_26\_6\_5\_4\_4.

TSPX\_TimadvC is used in: TC\_26\_6\_5\_1\_2, TC\_26\_6\_5\_1\_5, TC\_26\_6\_5\_1\_7, TC\_26\_6\_5\_1\_8, TC\_26\_6\_5\_2\_4.

TSPX\_TimadvD is used in: No at this moment.  
 TSPX\_TimadvE is used in: No at this moment.  
 TSPX\_TimadvF is used in: No at this moment.  
 TSPX\_TimadvG is used in: No at this moment.  
 TSPX\_TimadvH is used in: No at this moment.  
 TSPX\_TimadvDef is used in: No at this moment.

**B.7.2.6.17 Parameter TSPX\_WaitForFac**

In test case TC\_31\_6\_1\_2, after the test system sends FACILITY message containing facility IE there are two possible execution paths, one is that the test system sends CONNECT ACKNOWLEDGE, another is that the test system waits for the FACILITY message from the MS. The parameter TSPX\_WaitForFac controls the execution path. If TSPX\_WaitForFac = FALSE the test system sends CONNECT ACKNOWLEDGE.

**Table 214: Parameter TSPX\_WaitForFac**

| Name            | Type    | Value |
|-----------------|---------|-------|
| TSPX_WaitForFac | BOOLEAN |       |

**B.7.2.6.18 Parameter TSPX\_WaitForConnACK**

In test case TC\_31\_6\_1\_5, after the test system sends CONNECT message there are two possible execution paths, one is that the test system sends FACILITY message containing facility IE, another is that the test system waits for the CONNECT ACKNOWLEDGE message from the MS. The parameter TSPX\_WaitForConnACK controls the execution path. If TSPX\_WaitForConnACK = FALSE the test system sends FACILITY message.

**Table 215: Parameter TSPX\_WaitForConnACK**

| Name                | Type    | Value |
|---------------------|---------|-------|
| TSPX_WaitForConnACK | BOOLEAN |       |



**B.7.2.6.19 Parameter TSPX\_PathH1**

In test case TC\_31\_6\_1\_7, after the second call (call C) established there are two possible execution paths, one is that the test system disconnects the call B (path I), another is that the test system disconnects the call C (path H). The parameter TSPX\_PathH1 controls the execution path. If TSPX\_PathH1 = FALSE the test system disconnects the call B.

**Table 216: Parameter TSPX\_PathH1**

| Name        | Type    | Value |
|-------------|---------|-------|
| TSPX_PathH1 | BOOLEAN |       |

**B.7.2.6.20 Parameter TSPX\_PathH2**

In test case TC\_31\_6\_1\_8, after multiparty call established there are two possible execution paths, one is that the test system disconnects the call B (path I), another is that the test system disconnects the call C (path H). The parameter TSPX\_PathH2 controls the execution path. If TSPX\_PathH2 = TRUE the test system disconnects the call C.

**Table 217: Parameter TSPX\_PathH2**

| Name        | Type    | Value |
|-------------|---------|-------|
| TSPX_PathH2 | BOOLEAN |       |

**B.7.2.7 Questions on antenna and power supply****B.7.2.7.1 Type of antenna****Table 218: Type of antenna**

| Item | Question                                                                                                                | Answer |
|------|-------------------------------------------------------------------------------------------------------------------------|--------|
| 1    | Is the antenna an integrated one without a connector ? if so what is the position for normal use ?                      |        |
| 2    | Is the antenna with a connector allowing the connection of an external antenna ? if so what is the in band impedance ?: |        |

**B.7.2.7.2 Power supply****Table 219: power supply**

| Item | Question                                                   | Answer |
|------|------------------------------------------------------------|--------|
| 1    | Which type of battery (if any) is used?                    |        |
| 2    | What is the end-point voltage(s) of battery(ies)(if any) ? |        |
| 3    | Which type of power supply is used ?                       |        |
| 4    | What is the nominal voltage(s) ?                           |        |
| 5    | What are the details of MS shut-down voltage ?             |        |

**B.7.2.7.3 External RF amplifier**

**Table 220: External RF amplifier**

| Item                 | Question                                                                                                                                                                                    | Answer |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 1                    | Does the MS support external RF amplifier ?                                                                                                                                                 |        |
| Detailed Description |                                                                                                                                                                                             |        |
|                      |                                                                                                                                                                                             |        |
| NOTE:                | If item 1 is supported, the client should declare the TSPX_ClassMark2Amp and provide detailed description of the means to change the RF power capabilities in the Detailed Description box. |        |

**B.7.2.7.4 SIM removal support**

**Table 221: SIM removal support**

| Item                 | Question                                                                                              | Supported(Y/N) |
|----------------------|-------------------------------------------------------------------------------------------------------|----------------|
| 1                    | Does the MS support SIM removal without disconnection of the power supply ?                           |                |
| Detailed Description |                                                                                                       |                |
|                      |                                                                                                       |                |
| NOTE:                | If item 1 is supported, the client should provide detailed description of how to remove the SIM card. |                |

**B.7.2.7.5 Parameter TSPX\_MaxCPDataRetx**

In TC\_34\_2\_1 and TC\_34\_2\_2 test cases, it is needed to know the Maximum CP Data retransmission times. The manufacturer shall provide the implemented value in the parameter.

**Table 222: Parameter TSPX\_MaxCPDataRetx**

|                                                             |                    |
|-------------------------------------------------------------|--------------------|
| Parameter Name                                              | TSPX_MaxCPDataRetx |
| Parameter Type                                              | INTEGER            |
| Parameter Value                                             |                    |
| References:<br>TSPX_Txint is used in: TC_34_2_1, TC_34_2_2. |                    |

**B.7.2.7.6 Parameter TSPX\_DTMFInd**

In TC\_26\_8\_1\_4\_1\_1 test case, it is needed to know if and the DTMF tone is indicated to the user. The manufacturer shall state whether the MS support the DTMF tone indication to user.

**Table 223: Parameter TSPX\_DTMFInd**

|                                                        |              |
|--------------------------------------------------------|--------------|
| Parameter Name                                         | TSPX_DTMFInd |
| Parameter Type                                         | BOOLEAN      |
| Parameter Value                                        |              |
| References:<br>TSPX_Txint is used in: TC_26_8_1_4_1_1. |              |

**B.7.2.7.7 Parameter TSPX\_CallCntrlCap**

The parameter TSPX\_CallCntrlCap specifies the value of Call Control Capabilities IE used in the test.

**Table 224: Parameter TSPX\_CallCntrlCap**

| Parameter Name: TSPX_CallCntrlCap |                |             |                                   |
|-----------------------------------|----------------|-------------|-----------------------------------|
| Field                             | Type           | Value       | Comments                          |
| iei                               | BITSTRING[8]   | '00001000'B |                                   |
| iel                               | OCTETSTRING[1] | '01'O       | length of the IE in unit of OCTET |
| spb                               | BITSTRING[7]   | '_____ 'B   |                                   |
| dtmf                              | BITSTRING[1]   | '_ 'B       |                                   |
| References:                       |                |             |                                   |

**B.7.2.7.8 Parameter TSPX\_ClassMark1**

The parameter TSPX\_ClassMark1 specifies the value of Class Mark 1 IE used in the test.

**Table 225: Parameter TSPX\_ClassMark1**

| Parameter Name: TSPX_ClassMark1                                                       |              |       |                                       |
|---------------------------------------------------------------------------------------|--------------|-------|---------------------------------------|
| Field                                                                                 | Type         | Value | Comments                              |
| iei                                                                                   | BITSTRING[8] | OMIT  |                                       |
| spb1                                                                                  | BITSTRING[1] |       | spare bit                             |
| rl                                                                                    | BITSTRING[2] |       | revision level                        |
| spb2                                                                                  | BITSTRING[1] |       | spare bits or early sending indicator |
| a5_1                                                                                  | BITSTRING[1] |       | A5/1 algorithm supported              |
| rfpc                                                                                  | BITSTRING[3] |       | RF power capability                   |
| References:<br>TSPX_ClassMark1 is used in: TC_26_7_4_1, TC_26_7_4_3_2, TC_26_7_4_3_3. |              |       |                                       |

**B.7.2.7.9 Parameter TSPX\_ClassMark2**

The parameter TSPX\_ClassMark2 specifies the value of Class Mark 2 IE used in the test.

Table 226: Parameter TSPX\_ClassMark2

| Parameter Name: TSPX_ClassMark2                                                                                                                                 |                |         |                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------|--------------------------------------|
| Field                                                                                                                                                           | Type           | Value   | Comments                             |
| iei                                                                                                                                                             | BITSTRING[8]   | OMIT    |                                      |
| iel                                                                                                                                                             | OCTETSTRING[1] |         | length of the IE in unit of OCTET    |
| spr1                                                                                                                                                            | BITSTRING[1]   | '_B     | spare bit                            |
| rl                                                                                                                                                              | BITSTRING[2]   | '__B    | revision level                       |
| spr2                                                                                                                                                            | BITSTRING[1]   | '_B     | spare bit or early sending indicator |
| a5_1                                                                                                                                                            | BITSTRING[1]   | '_B     | A5/1 algorithm supported             |
| rfpc                                                                                                                                                            | BITSTRING[3]   | '___B   | RF power capability                  |
| spr3                                                                                                                                                            | BITSTRING[1]   | '_B     | recommendation                       |
| psc                                                                                                                                                             | BITSTRING[1]   | '_B     | pseudo synchronization capability    |
| ssi                                                                                                                                                             | BITSTRING[2]   | '__B    | SS screen indicator                  |
| smc                                                                                                                                                             | BITSTRING[1]   | '_B     | short message capability             |
| spr4                                                                                                                                                            | BITSTRING[2]   | '__B    | spare bits                           |
| fc                                                                                                                                                              | BITSTRING[1]   | '_B     | frequency capability                 |
| cm3                                                                                                                                                             | BITSTRING[1]   | '_B     | class mark 3 indicator               |
| spr5                                                                                                                                                            | BITSTRING[5]   | '_____B | spare bits                           |
| a5_3                                                                                                                                                            | BITSTRING[1]   | '_B     | A5/3 algorithm supported             |
| a5_2                                                                                                                                                            | BITSTRING[1]   | '_B     | A5/2 algorithm supported             |
| References:<br>TSPX_ClassMark2 is used in: TC_26_6_11_1, TC_26_6_11_2, TC_26_7_3_2, TC_26_8_2_1, TC_26_9_4, TC_26_9_5, TC_26_9_6_2_1, TC_26_9_2_2, TC_31_6_2_4. |                |         |                                      |
| NOTE: RF power capability is the power capability without external RF amplifier                                                                                 |                |         |                                      |

**B.7.2.7.10 Parameter TSPX\_ClassMark2Amp**

The parameter TSPX\_ClassMark2 specifies the value of Class Mark 2 IE used in the test.

Table 227: Parameter TSPX\_ClassMark2Amp

| Parameter Name: TSPX_ClassMark2Amp                                           |                |         |                                      |
|------------------------------------------------------------------------------|----------------|---------|--------------------------------------|
| Field                                                                        | Type           | Value   | Comments                             |
| iei                                                                          | BITSTRING[8]   | OMIT    |                                      |
| iel                                                                          | OCTETSTRING[1] |         | length of the IE in unit of OCTET    |
| spr1                                                                         | BITSTRING[1]   | '_B     | spare bit                            |
| rl                                                                           | BITSTRING[2]   | '__B    | revision level                       |
| spr2                                                                         | BITSTRING[1]   | '_B     | spare bit or early sending indicator |
| a5_1                                                                         | BITSTRING[1]   | '_B     | A5/1 algorithm supported             |
| rfpc                                                                         | BITSTRING[3]   | '___B   | RF power capability                  |
| spr3                                                                         | BITSTRING[1]   | '_B     | recommendation                       |
| psc                                                                          | BITSTRING[1]   | '_B     | pseudo synchronization capability    |
| ssi                                                                          | BITSTRING[2]   | '__B    | SS screen indicator                  |
| smc                                                                          | BITSTRING[1]   | '_B     | short message capability             |
| spr4                                                                         | BITSTRING[2]   | '__B    | spare bits                           |
| fc                                                                           | BITSTRING[1]   | '_B     | frequency capability                 |
| cm3                                                                          | BITSTRING[1]   | '_B     | class mark 3 indicator               |
| spr5                                                                         | BITSTRING[5]   | '_____B | spare bits                           |
| a5_3                                                                         | BITSTRING[1]   | '_B     | A5/3 algorithm supported             |
| a5_2                                                                         | BITSTRING[1]   | '_B     | A5/2 algorithm supported             |
| References:<br>TSPX_ClassMark2Amp is used in: TC_26_6_11_1.                  |                |         |                                      |
| NOTE: RF power capability is the power capability with external RF amplifier |                |         |                                      |

**B.7.2.7.11 Parameter TSPX\_ClassMark3**

The parameter TSPX\_ClassMark3 specifies the value of Class Mark 3 IE used in the test..

Table 228: Parameter TSPX\_ClassMark3

| Parameter Name: TSPX_ClassMark3                          |                 |             |                                   |
|----------------------------------------------------------|-----------------|-------------|-----------------------------------|
| Field                                                    | Type            | Value       | Comments                          |
| iei                                                      | BITSTRING[8]    | '00100000'B | '00100000'B                       |
| iel                                                      | OCTETSTRING[1]  | '_'O        | length of the IE in unit of OCTET |
| spr1                                                     | BITSTRING[4]    | '_'B        | spare bits                        |
| a5_7                                                     | BITSTRING[1]    | '_'B        | A5_7 algorithm supported          |
| a5_6                                                     | BITSTRING[1]    | '_'B        | A5_6 algorithm supported          |
| a5_5                                                     | BITSTRING[1]    | '_'B        | A5_5 algorithm supported          |
| a5_4                                                     | BITSTRING[1]    | '_'B        | A5_4 algorithm supported          |
| spr2                                                     | OCTETSTRING[11] |             | spare bits                        |
| References:<br>TSPX_ClassMark3 is used in: TC_26_6_11_2. |                 |             |                                   |

### B.7.2.8 Test Suite Timer Values

The client shall specify the values for the following timers based on the explanation below.

Table 229: Test Suite Timer Values

| Item                                              | Name          | Value | Comments                                      |
|---------------------------------------------------|---------------|-------|-----------------------------------------------|
| 1                                                 | TSPX_T3122    |       | value is coded in HEXSTRING[2]                |
| 2                                                 | TSPX_T3210    |       | value for timer T3 210 in INTEGER             |
| 3                                                 | TSPX_T3211min |       | 90 % of the value for timer T3 211 in INTEGER |
| 4                                                 | TSPX_T3211_80 |       | 80 % of the value for timer T3 211 in INTEGER |
| 5                                                 | TSPX_T3213min |       | 90 % of the value for timer T3 213 in INTEGER |
| 6                                                 | TSPX_T3230min |       | 90 % of the value for timer T3 230 in INTEGER |
| 7                                                 | TSPX_T3240min |       | 90 % of the value for timer T3 240 in INTEGER |
| 8                                                 | TSPX_T3240tol |       | tolerance of timer T3 240 in INTEGER          |
| 9                                                 | TSPX_TC1M     |       | value for timer TC1M in INTEGER               |
| NOTE: The unit of the above parameters is second. |               |       |                                               |

### B.7.2.9 Man Machine Interface

The manufacturer shall describe the Man Machine Interface in the following tables:

- Description of manual entry and display of a called number:

|  |
|--|
|  |
|--|

- Description of the basic way to send a call manually:

|  |
|--|
|  |
|--|

- Description of the basic way to take a call manually:

|  |
|--|
|  |
|--|

- Description of the basic way to end a call manually:

- Description of the basic way to send an emergency call manually:

- Description of the basic way to send DTMF manually:

- Description of the manual PLMN selector:

- Description of the automatic PLMN selector:

- Description of the indication of the country:

- Description of the indication of the available PLMN:

- Description of the indication of the automatic registration to a PLMN:

- Description of the service indicator:

- Description of the management of the SIM by the user:
  - . keying PIN and changing PIN,
  - . indication of acceptance or rejection of keyed PIN,
  - . indication of blocked SIM,
  - . indication of successful unblocking of the SIM,
  - . storing an abbreviated number,
  - . displaying an abbreviated number.

- Description of the selection of the hands free:

- Description of the volume control:

- Description of local barring of outgoing calls:

- Description of prevention of unauthorized calls:

- Description of the auto calling management:
  - . selection of the auto calling,
  - . indication that the call failed and a re-try is attempted,
  - . indication that the call finally failed.

- Description of the way in which the MS generates an MS originated NOTIFY, if supported:

- Description of the basic procedure to display a MT SM:

- Description of the basic procedure to send a MO SM:



- Description of the basic procedure to display a cell broadcasted SM:

- Description of the user's commands and of display of the answers from the network for call forwarding:

- Description of the method of reading ACM from the SIM via the ME:

- Description of type of user indication when ACMM exceeded:

- Description of the user's commands and of display of the answers from the network for call barring:

- Description of the way to empty short message storage:

- Description of the way to control the MS so that the class 1 short message will be stored in the ME:



**Annex C: PCTR Proforma**

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## PROTOCOL

### Conformance Test Report (PCTR)

Global System for Mobile Communication, GSM,  
User-Network Access

### Layer 3 Signalling Functions

|                |          |
|----------------|----------|
| Test Candidate |          |
| Name :         | SUT name |
| Model :        | model    |
| H/W version :  | hw       |
| S/W version :  | sw       |
| Serial No. :   | serienr  |

|                     |  |
|---------------------|--|
| Client              |  |
| Name :              |  |
| Street / No. :      |  |
| Postal Code / City: |  |
| Country :           |  |

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## History

| Document history |                                                 |           |                          |
|------------------|-------------------------------------------------|-----------|--------------------------|
| December 1995    | Public Enquiry                                  | PE 97:    | 1995-12-04 to 1996-03-29 |
| May 1996         | Vote                                            | V 103:    | 1996-05-20 to 1996-08-23 |
| September 1996   | First Edition                                   |           |                          |
| December 1995    | Public Enquiry<br>(Second Edition)              | PE 97:    | 1995-12-04 to 1996-03-29 |
| May 1996         | Vote<br>(Second Edition)                        | V 103:    | 1996-05-20 to 1996-07-26 |
| August 1996      | Unified Approval Procedure<br>(Second Edition)  | UAP 52    | 1996-08-19 to 1996-12-13 |
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